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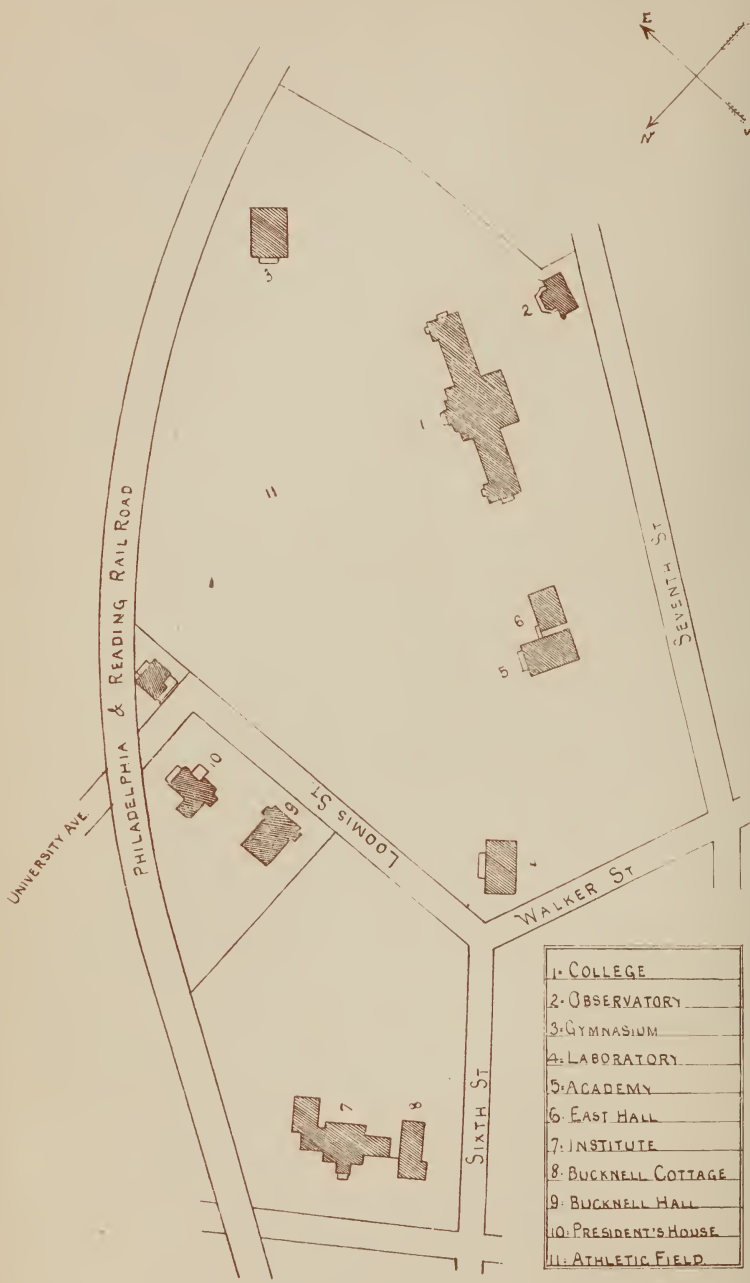
BUCKNELL UNIVERSITY.

1892-93.

LEWISBURG, PA.



MAP OF BUILDINGS AND CAMPUS.

THE FORTY-THIRD

ANNUAL CATALOGUE

OF THE

OFFICERS AND STUDENTS

OF

BUCKNELL UNIVERSITY,

LEWISBURG, PA.,

FOR THE YEAR 1892-'93.

LEWISBURG:
PRINTED FOR THE UNIVERSITY,
1893.

LOCATION.

The University is located at Lewisburg, near the geographical centre of the State, on the West Branch of the Susquehanna River, in a valley famous for healthfulness and beauty. In addition to the natural advantages of the site, the founders of the institution appreciated the quiet of an inland town for economical support and retirement in study, particularly as it was found that other corporations had so located "their respective colleges as to leave in the central and northern part of Pennsylvania, a region extending more than two hundred miles from East to West, and more than one hundred from North to South, wholly unoccupied by any literary institution above the grade of an ordinary academy." Since the founding of the University, the multiplication of railroads has rendered access easy to every part of the State.

PLAN AND PURPOSE OF THE UNIVERSITY.

CORPORATE RIGHTS.

The University was incorporated, with full University privileges, by the Legislature of Pennsylvania in an act approved by the Executive on the fifth day of February, A. D. 1846. The Management of the University is committed to a Board of Trustees, consisting of twenty-five members, or fewer, at the option of the Board. The Trustees are prohibited, for any cause, or under any pretext whatever, from encumbering by mortgage or otherwise the real estate or any other property of the Institution. It is required by the charter, that no religious sentiments are to be accounted a disability to hinder the election of an individual to any office among the teachers of the Institution, or to debar persons from attendance as pupils, or in any manner to abridge their privileges or immunities as students in any department of the University.

ENDOWMENT.

The Institution has productive funds amounting to over three hundred thousand dollars. The endowment funds, raised at various times, were increased, in 1881, to an even two hundred thousand dollars. Since that time William Bucknell has contributed to the general fund one hundred and fifteen thousand dollars, and for scholarships and prizes about twenty-five thousand dollars.

The raising of one hundred thousand dollars additional endowment was completed July 5, 1892. This money will soon become productive.

At the commencement of 1892 the Board of Trustees voted to raise forty thousand dollars to create a chair for Bible instruction. This work is now progressing.

FORM OF BEQUEST.

To persons desiring to aid in increasing the efficiency of the schools in the work of preparing young men and young women for usefulness, the following form of bequest is recommended:

I give and bequeath to the Bucknell University, at Lewisburg, Pa., the sum of . . . . . dollars for the general purpose of said school, according to the Act of Assembly incorporating the same.

ORGANIZATION.

The University aims to impart sound instruction in all non-professional studies. It comprises four Departments:

I. **The College** offers three courses of study, leading respectively to degrees in Arts, Philosophy and Science.

II. **The Institute** for young women has three courses of study, the Literary, the Classical and the Scientific, leading to diplomas, but not to degrees.

III. **The Academy** is designed to fit young men for College, either for the Classical, Philosophical or Scientific course.

IV. **The Institute of Music** has full courses in instrumental and vocal music, and grants diplomas to those who complete either of the specified courses.

These schools are under one corporation, have one President, who has general charge, with a principal in more immediate charge of each of the subordinate departments. All expenses are met from funds in the hands of a common treasurer.

V. **Keystone Academy, Mt. Pleasant Institute** and **Hall Institute** are under the same denominational control, but with distinct corporate existence, and are affiliated with the University. These schools have courses preparatory to College, and their graduates are admitted without examination.

BOARD OF TRUSTEES.

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REV. LEROY STEPHENS, D. D.,
JAMES S. SWARTZ, ESQ.,
ALFRED TAYLOR, A. M., LL. B.,
*REV. JOSEPH P. TUSTIN, A. M.,
JOSEPH K. WEAVER, M. D.,
REV. HENRY G. WESTON, D. D.,
HON. S. P. WOLVERTON, A. M.

*Deceased.

MEETINGS OF THE BOARD.

The annual meeting is held on the Tuesday of Commencement week, at Lewisburg, Pa.

The semi-annual meeting is held on the second Thursday of January, at 1420 Chestnut Street, Philadelphia, Pa.

COMMITTEES OF THE BOARD.

COMMITTEE ON INSTRUCTION AND DISCIPLINE:

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REV. HENRY G. WESTON, D. D., HON. SIMON P. WOLVERTON, A. M.,
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REV. DAVID P. LEAS, A. M., JOSEPH K. WEAVER, M. D.

COMMITTEE ON BUILDINGS AND GROUNDS:

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REV. GEORGE M. SPRATT, D. D., *Chairman.*

*REV. JOSEPH P. TUSTIN, A. M., REV. JAMES W. PUTNAM,
REV. DAVID P. LEAS, A. M., REV. HENRY G. WESTON, D. D.,
REV. C. C. BITTING, D. D.

*Deceased.

THE UNIVERSITY PROPERTY.*

I. THE COLLEGE.

The College building is situated on a hill which rises one hundred feet above the Susquehanna River, and overlooks scenery of unsurpassed beauty. It has a façade of three hundred and twenty feet. The building was designed by Thomas U. Walter, LL. D., architect of the dome and wings of the Capitol, at Washington, D. C., and is in the Grecian style, combining dignity and simplicity. The central portion is eighty feet square, and is strengthened in front by four massive columns. Within, on the first floor, are five commodious recitation rooms, respectively for English Literature, Greek, Latin, Mathematics and Modern Languages.

On the second floor are the Halls of Theta Alpha and Euepia Literary Societies, the Library-room, Reading-room and Museum of Natural History.

In the third story is Commencement Hall, with a seating capacity of fifteen hundred.

The wings on the eastern and western side, respectively, of the Main Building, are each one hundred and twenty feet in length, and four stories high, and are used for students' rooms. Each sleeping room above the second floor is supplied with a fire escape.

Several thousand dollars have been expended recently in improving the College building.

II. BUCKNELL HALL.

Bucknell Hall is used as a chapel, in which all the students meet every morning for worship. These exercises give unity to the life of the University, and base the unity upon religious principles. The time is devoted wholly to worship, consisting of singing, reading of Scripture and prayer.

III. BUCKNELL OBSERVATORY.

The Observatory was erected in 1887, and is designed for the use of students in Practical Astronomy.

The entire equipment is new and represents the latest improvements in this class of instruments. It consists of a Clark Equatorial Telescope of 10 inches aperature and 12½ feet focal length, furnished with a fine position Micrometer and all the usual accessories; a Spectroscope, with prism and grating by Brashear, the grating having 14,500 lines to the inch; a 3-inch Prismatic Transit with a 13 wire movable Micrometer, by T. Ertel & Sons; a Fauth Chronograph with Bond spring governor; a Waldo Precision Clock for sidereal time, with mercurial compensation, break circuiting apparatus, Daniell's battery and

*For map of grounds see frontispiece.

telegraph sounders; a Seth Thomas Clock for solar time; a Sextant; a 3-inch Altitude Azimuth Refractor; a set of Meteorological instruments; Celestial globes and maps, and standard works on Theoretic and Practical Astronomy.

IV. THE BUCKNELL LABORATORY.

The Laboratory was erected in 1890, and is forty-three feet in width and eighty-six feet in length, and has two stories above the basement. In the first story, which has a clear height of fifteen feet, are a lecture-room, with a seating capacity for one hundred and twenty-five students, and a large working room, in which are tables for individual work in Chemical Analysis; the second floor contains a lecture-room for the class in Physics, and one room each for Quantitative and Qualitative Analysis; the basement has a dark room for Photometry, a room for Applied Chemistry, another for Electricity, and a Fire-proof room.

V. THE TUSTIN GYMNASIUM.

The basement of the Gymnasium is built of stone, and contains rooms for students' lockers, wardrobes and dressing-rooms, shower-baths, furnaces and coal. The second story is built of brick, rising twenty-two feet from the main floor to the square and is open to the roof. At the heighth of twelve feet a running track gallery, six feet wide, surrounds the room.

VI. THE UNIVERSITY ATHLETIC FIELD.

The field is conveniently located at the foot of "College Hill," and was graded and fitted up at great expense for out-door sports. In the northwest corner, just at the main entrance to the college grounds, a shaded section has been set aside for tennis. The tennis courts are carefully graded, laid out and protected by wire netting. The athletic field is sufficiently large for foot ball, base ball and lacrosse. The slope of "College Hill" furnishes a perfect and natural "Grand Stand." Tustin Gymnasium is located at the end of the field, so as to be near the centre of exercise and easily accessible by the trainers and athletes.

VII. THE ACADEMY.

The Academy building, situated on College Hill, is fifty feet in width by eighty feet in length and three stories high; on the first floor is a commodious dining-room, thirty feet by thirty-six feet; two recitation-rooms, a reception-room and the Principal's office; on the second floor are suites of rooms for the Principal and his family and for the Matron, and a society hall; the third floor is occupied by students' rooms. These are twenty feet by twelve feet and fourteen feet high. Over three thousand dollars have been recently expended in the improvement of this building. Borough water and steam heat have recently been introduced.

VIII. THE EAST HALL.

This is the Bucknell Cottage for young men, and is contiguous to the Academy building and connected with it by a covered passage-way. It is a brick building, three stories high, sixty feet in length and forty feet in width, and is finished in natural wood. The building contains a recitation-room, teachers'

apartments, and rooms for thirty-seven students. The rooms have high ceilings, large double windows with inside shutters, two commodious closets each, and are warmed by steam radiators.

IX. THE INSTITUTE.

The Campus of the Ladies' Institute is separate from that of the College, and comprises six acres.

The Main Building contains, on the first floor, an office for the Principal and the Registrar, a reception room, the office of the Director of Music, five music-rooms, two recitation-rooms, and a dining hall; on the second floor a school-room and a parlor, elegantly furnished; on the third floor a library-room, teachers' apartments and students' rooms.

The South Hall, erected in 1869, is devoted to students' rooms, except the third story, which is used as a gymnasium. This gymnasium was lately renovated and equipped. Drills are given at regular intervals with the light apparatus.

X. THE BUCKNELL COTTAGE.

This building stands to the southwest of the Main Building, being connected with it by an enclosed passage-way. It is built of brick, in the Queen Anne style of architecture, and has dimensions of one hundred feet by thirty-three feet. The interior is finished in natural wood, and is equipped, in matters of light, heat and ventilation, with the most modern improvements.

The portion allotted to students' rooms affords accommodations for forty occupants. These rooms are in suites on the general plan of a centre parlor with bed-rooms and closets on either side. The most spacious room of the building and its chief attraction is the **Studio,** with such adjustments for the admission of light and supply of unencumbered wall surfaces as render it precisely adapted for the execution and display of art products.

All the Institute buildings are supplied with hot and cold water. Steam pipes and radiators warm every room. The drainage is faultless; stagnant water and dampness are impossible. The constant good health of the students bears testimony to the perfect sanitary condition of this pleasant home school.

XI. THE INSTITUTE CAMPUS.

The Campus of the Ladies' Institute comprises six acres and is separated from the college grounds by Loomis Street. It covers a grove of native trees, with beautifully shaded walks. Three courts furnish abundant opportunity for tennis. Out-door games and exercises are encouraged, for which the Institute campus furnishes fine facilities.

XII. THE PRESIDENT'S HOUSE.

The Corporation also owns a house for the use of the President of the University. It is surrounded by a beautiful lawn of two acres.

THE COLLEGE.

THE FACULTY AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D., PRESIDENT,
AND PROFESSOR OF PSYCHOLOGY AND ETHICS.

FREEMAN LOOMIS, PH. D.,
PROFESSOR OF MODERN LANGUAGES AND LITERATURE, AND OF HISTORY.

GEORGE G. GROFF, M. D., LL. D.,
PROFESSOR OF ORGANIC SCIENCES.

WILLIAM CYRUS BARTOL, A. M.,
PROFESSOR OF MATHEMATICS AND ASTRONOMY.

FRANK ERNEST ROCKWOOD, A. M.,
PROFESSOR OF THE LATIN LANGUAGE AND LITERATURE.

WILLIAM GUNDY OWENS, A. M.,
PROFESSOR OF PHYSICS AND CHEMISTRY.

ENOCH PERRINE, A. M., LITT. D.,
JOHN P. CROZER PROFESSOR OF RHETORIC AND ENGLISH LITERATURE,
AND SECRETARY.

THOMAS FRANKLIN HAMBLIN, A. M.,
NEW JERSEY PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

FREEMAN LOOMIS, PH. D.,
LIBRARIAN.

LLEWELLYN PHILLIPS, A. B.,
INSTRUCTOR IN ELOCUTION.

WILLIAM CHRISTIAN GRETZINGER, PH. B.,
REGISTRAR OF THE UNIVERSITY.

DIRECTORY OF THE ALUMNI.

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ALBERT FOSTER, D. D.

Vice Presidents,
REV. GEORGE WHITMAN, A. M., and CHAPLAIN T. A. GILL, A. M., U. S. N.

Secretary and Treasurer,
PROF. WM. G. OWENS, A. M., Lewisburg.

Board of Managers,
The OFFICERS of the Association, and W. O. SHAFFER, A. M.;
D. BRIGHT MILLER, A. M.; PRIN. W. E. MARTIN, A. M.;
WILLIAM LEISER, JR., M. D., and W. C. GRETZINGER, PH. B.

Orator for 1892,
HON. H. M. MCCLURE,
Alternate,
E. M. BRAWLEY, D. D.

Poet for 1892,
PROF. WILLIAM B. RIDENOUR, A. M.
Alternate,
REV. A. C. KNOWLTON, A. M.

THE BUCKNELL UNIVERSITY CLUB OF PHILADELPHIA.

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Vice President, HON. WARD R. BLISS, A. M.
Secretary, REV. R. B. MCDANEL, A. M.
Treasurer, C. B. LOWE, M. D.
Chairman of Executive Committee, J. H. GRATER, A. M.

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President, CHAUNCEY B. RIPLEY, LITT. D., LL. D.
Vice Presidents, REV. T. A. K. GESSLER, D. D., and ALFRED TAYLOR, LL. B.
Secretary, REV. W. R. MAUL, PH. B., Erastina, Staten Island, N. Y.
Treasurer, DAVID E. RUE, A. M.
Executive Committee,
T. R. JONES, LL. B., REV. S. B. MEESER, PH. B., A. W. HAND, A. M.

The Registrar of the University will esteem it a favor if any alumnus who changes his residence will give notice of his new address. He will also be grateful for any information that will assist in making or keeping the directory of the alumni complete, or serve for future editions of the quinquennial catalogue.

STUDENTS.

THE SENIOR CLASS.

NAME.	RESIDENCE.	ROOM.
NELLIE WILSON CONARD,	*Philadelphia.*	Institute.
JOHN BRICE CRESSINGER,	*Sunbury.*	No. 7, West Wing.
PHILIP JACKSON DICKERSON,	*Lulu, Va.*	No. 11, East Wing.
JOHN HAMMOND FORESMAN,	*Williamsport.*	No. 5, East Wing.
ARTHUR FREMONT GARDNER,	*Factoryville.*	No. 31, East Wing.
CARRIE LOUISA GEARY,	*Carbondale.*	Institute.
CHARLES ALEXANDER GUNDY,	*Lewisburg.*	Mr. J. A. Gundy.
EPHRAIM M. HEIM,	*Warrensville.*	No. 7, East Wing.
CARRIE VANDERSLICE LLOYD,	*Phoenixville.*	Institute.
EDWIN MAXEY,	*Royal.*	No. 17, East Wing.
EDWARD CLAYTON PAULING,	*Elimsport.*	No. 32, East Wing.
CHARLES FISHER RINKER,	*Eaton.*	No. 13, East Wing.
EUGENIO KINCAID THOMAS,	*Scranton.*	No. 3, East Wing.

THE JUNIOR CLASS.

NAME.	RESIDENCE.	ROOM.
ANDREW FREEMAN ANDERSON,	*Lewisburg.*	Mrs. Margaret E. Anderson.
BENJAMIN ALSUP BALDWIN,	*Litchfield.*	Mr. Edward Bell.
MARY L. BARTOL,	*Lewisburg.*	Prof. W. C. Bartol.
ELIZA BELL,	*Lewisburg.*	Mr. Edward Bell.
EVERETT ADAMS BUSH,	*Panama, N. Y.*	No. 3, East Wing.
PERRY SYLVESTER CALVIN,	*Transfer.*	No. 8½, East Wing.
ROBERT BAILEY DAVIDSON,	*Paterson, N. J.*	No. 24, East Wing.
RAYMOND JOHN DAVIS,	*Jenkintown.*	Mrs. Margaret E. Anderson.
HARVEY LEARN FASSETT,	*Scottsville.*	No. 13, East Wing.
ALBERT EDWARD FINN,	*Philadelphia.*	No. 33, West Wing.
THOMAS STRADLING FRETZ,	*Gardenville.*	No. 5, West Wing.
HOWARD POLLOCK GUNDY,	*Lewisburg.*	Mr. W. L. Gundy.
GRACE GUTHRIE,	*Pottsville.*	Institute.
MARY BELLE HARRIS,	*Lewisburg.*	President Harris.
JAMES ROWLAND HUGHES,	*Scranton.*	No. 21, East Wing.
GILBERT FENIMORE KENDALL,	*Lewisburg.*	Rev. J. L. Kendall.
JAMES MALCOLM KENDALL,	*Lewisburg.*	Rev. J. L. Kendall.
ALONZO CORODYN LATHROP,	*Lewisburg.*	No. 4, West Wing.
CHARLES FRANKLIN MCMANN,	*Philadelphia.*	No. 12, East Wing.
WARREN STANLEY MARTS,	*Dividing Creek, N. J.*	No. 32 West Wing.

NAME.	RESIDENCE.	ROOM.
EDWIN MORGAN,	*East Stroudsburg.*	No. 24½, East Wing.
LEVI LORE RIGGIN,	*Port Norris, N. J.*	No. 19, East Wing.
FREDERICK OTTO SCHUB,	*Pittsburg.*	No. 19, West Wing.
WILLIAM BOYD SHEDDAN,	*Pottsgrove.*	No. 6, East Wing.
FRANKLIN REESE STRAYER,	*Lewistown.*	Prof. G. G. Groff.
HARVEY FETTERHOFF SMITH,	*Harrisburg.*	No. 7, West Wing.
RALPH RANSSALAER SNOW,	*Franklin.*	No. 7, East Wing.
WILSON METTLER VASTINE,	*Riverside.*	No. 16½, East Wing.
GEORGE HENRY WAID,	*Reading.*	No. 12, West Wing.
JESSIE JUNE WHEELER,	*Erie.*	Prof. W. C. Bartol.
CHARLES WESLEY WILLIAMS,	*Philadelphia.*	No. 12, West Wing.
JOSEPH ROBERTS WOOD,	*Norristown.*	No. 6, West Wing.
ADAM MARTIN WYANT,	*Adrian.*	No. 20, East Wing.
ALBERT HARNISH WYNKOOP,	*Philadelphia.*	No. 6, West Wing.

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CHARLES FRANKLIN HALL,	*Philadelphia.*	No. 4, West Wing.
WILLIAM THEOPHILUS HARRIS,	*Frankford.*	No. 10, West Wing.
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FRANK WATTERSON JACKSON,	*Ohiopyle.*	No. 26, West Wing.
WILLIAM ALBERT KAUFFMAN,	*Strode's Mills.*	No. 26, West Wing.
EDWARD GRIDLEY KENDALL,	*Lewisburg.*	Rev. J. L. Kendall.
BOYD WARDLE KINPORTS,	*Grant.*	No. 27, East Wing.
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KATE IRENE MCLAUGHLIN,	*Lewisburg.*	Mr. G. Y. McLaughlin.
SARAH MERRIMAN,	*Lewisburg.*	Rev. J. R. Merriman.

NAME.	RESIDENCE.	ROOM.
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FRANKLIN ISAAC SIGMUND,	*Philadelphia.*	No. 5, West Wing.
FRANK MORTON SIMPSON,	*Clifford.*	No. 29, East Wing.
ROBERT HARRIS SIMPSON,	*Clifford.*	No. 29, East Wing.
BROMLEY SMITH,	*Wilkes-Barre,*	No. 30, East Wing.
DAVID ATKINSON SOLLY,	*Philadelphia.*	No. 16, East Wing.
HELEN BAKER THOMAS,	*Mansfield.*	Institute.
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WILLIAM WILSON,	*Hainesport, N. J.*	No. 27 West Wing.

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Phillip Pontius Baker,	*Lewisburg.*	Mrs. S. J. Baker.
Charles James Berger,	*Philadelphia.*	No. 22, West Wing.
Hervey Harris Bower,	*Middleburg.*	No. 6, Main Hall.
Frederick William Brown,	*Franklin.*	No. 6, East Wing.
John Evan Brownell,	*Muncy.*	No. 3, West Wing.
Alfred Henry Catterall,	*Watsontown.*	No. 25, East Wing.
Alvin Alonzo Cober,	*Lewisburg.*	Home.
Harry Thomas Colestock,	*Crooked Creek.*	No. 14, West Wing.
Mary Cotton,	*Lewisburg.*	Mr. John S. Cotton.
William Jeremy Davis,	*Scranton.*	No. 21, East Wing.
John Warren Davis,	*Berkley, Va.*	No. 29, West Wing.
Katherine Detweiler,	*Norristown.*	Institute.
Alexander Douglass,	*Philadelphia.*	No. 22, West Wing.
Fred Delisle Finn,	*Clifford.*	No. 8, East Wing.
Charles Firth,	*Chester.*	No. 29, West Wing.
Isaac Baker Greene,	*Philadelphia.*	No. 18, East Wing.
Elwood Tyson Haddock,	*Media.*	No. 15, West Wing.
William Elmer Hall,	*Lewisburg.*	Home.

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HERBERT FREDERIC HARRIS,	*Lewisburg.*	President Harris.
WINFIELD WEBSTER IRWIN,	*Cowan.*	No. 24, West Wing.
THOMAS LEWIS JOSEPHS,	*Lindsey.*	No. 10, West Wing.
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JOSEPH G. KRAMER,	*Shamokin.*	No. 1, West Wing.
DANIEL ELLWOOD LEWIS,	*Conshohocken.*	No. 28, West Wing.
WILBUR J. LEWIS,	*William Penn.*	No. 12, East Wing.
JOHN VANDLING LESHER,	*Northumberland.*	No. 8, East Wing.
MILTON LOEB,	*Sunbury.*	No. 3, West Wing.
JAMES DEMOREST MACNAB,	*Paterson, N. J.*	No. 9, West Wing.
IRWIN MCCARTY,	*Sunbury.*	No. 25, West Wing.
ROBERT BURNS MCCAY,	*Northumberland.*	Mary A. McCay, M. D.
GEORGE LEWIS MEGARGEE,	*Coatesville.*	No. 27, East Wing.
FRANK BARRON MILLER,	*Lewisburg.*	D. Bright Miller, Esq.
CHARLES AUGUSTUS MUDGE,	*Williamsport.*	No. 4, East Wing.
ERNEST ROLAND MYERS,	*Huntingdon.*	No. 30, West Wing.
IDEN MAYFIELD PORTSER,	*Greensburg.*	No. 31, West Wing.
ERVIN RUSSELL POWELL,	*North Sewickley.*	No. 14, East Wing.
BARCLAY REYNOLDS, JR.,	*Rising Sun, Md.*	No. 30, West Wing.
LEO GUIDO CHARLES RIEMER,	*Brookston.*	No. 4, East Wing.
CLEMENT KEEN ROBB,	*Philadelphia.*	No. 23, East Wing.
ALBERT COLLINS ROHLAND,	*West Newton.*	No. 20, East Wing.

NAME.	RESIDENCE.	ROOM.
MARY ROHRER,	*Lewisburg.*	Home.
LEWIS H. RYON,	*Shamokin.*	No. 28, East Wing.
HERBERT SPENCER SCHUYLER,	*Turbotville.*	No. 9, West Wing.
ALBERT WOODWARD STEPHENS,	*Mount Pleasant.*	No. 24, East Wing.
JOSIAH BOWER SUITER,	*Lock Haven.*	No. 15, West Wing.
LEWIS CLARK TINKER,	*Sharon.*	No. 14, East Wing.
ROBERT FITZSIMMONS TRAINER,	*Williamsport.*	No. 5, East Wing.
LEWIS CLARK WALKINSHAW,	*Greensburg.*	No. 31, West Wing.
BURTON BELFORD WARE,	*Millville, N. J.*	No. 20, West Wing.
ROLAND WEBSTER,	*East New Market, Md.*	No. 23, East Wing.
WILLIE ALBERT WILKINSON,	*Westmont, N. J.*	No. 18, East Wing.
AMOS THOMAS WILLIAMS,	*Ridgway.*	No. 31, East Wing.
HOWARD JONES WILLIAMS,	*Ashland.*	No. 26, East Wing.
MARY MOORE WOLFE,	*Lewisburg.*	Mrs. Martha Wolfe.
SAMUEL RAWCLIFFE WOOD,	*Chester.*	No. 28, West Wing.

SPECIAL STUDENTS.

NAME.	RESIDENCE.	STUDIES.
IRA CLAYTON LEEDOM,	*Southampton.*	Chemistry and Sciences.
WINIFRED LYMAN,	*Austin.*	Logic and Literature.
FANNIE BAXTER MONTGOMERY,	*McEwensville.*	Latin and Mathematics.
J. MARION VASTINE,	*Catawissa.*	Sophomore Studies.
WILLIAM C. WEBER,	*Sunbury.*	Senior Studies.

AUDIENTES.

NAME.	RESIDENCE.	CLASS.
EMMA EEG,	*Lewisburg.*	Science of Rhetoric.
ELEANOR CAMERON HARRISON,	*Lewisburg.*	Science of Rhetoric.

SUMMARY.

The Senior Class,	13
The Junior Class,	34
The Sophomore Class,	34
The Freshman Class,	59
Special Students,	4
Total	144
In other departments	207
Total in all Departments	351

ADMISSION.

TO FRESHMAN STANDING.

I. **General Requirements.**—Examinations for admission to the Freshman Class will be held on Monday of Commencement week, June 19th. Candidates will assemble in Bucknell Hall at 8:30 A. M., and come supplied with pencil and paper.

Similar examinations are also held on the day preceding the opening of each term. In special cases, candidates may be examined and admitted at other times in the year.

Candidates are expected to come well prepared in the English branches named below. They will be as strictly examined in these studies as in the Ancient Languages and Mathematics.

There must be furnished to the President by the candidate satisfactory testimonials of good moral character, and, if he come from another college, a certificate of honorable dismission must be presented.

The required age for admission to the Freshman Class is fifteen years.

II. **Particular Requirements.**—They are as follows for the respective courses:

I. THE CLASSICAL COURSE.

To enter the Classical Course, the student must sustain an examination in:—

ENGLISH.

1. Writing from dictation.
2. English Grammar.
3. Elements of Rhetoric—Invention, Style and Punctuation.
4. A brief composition upon a subject assigned at the time of the examination. For the year 1893, the subject will be taken from one of the following:

Shakespeare's Othello, George Elliot's Silas Marner, Macaulay's Essay on Lord Clive, and Webster's First Bunker Hill Oration.

MATHEMATICS.

1. Arithmetic, including the Metric System.
2. Algebra, including Quadratic Equations. The requirements in this study are intended to include the treatment of Radicals, and will be most nearly met by the use of Wells' University Algebra.
3. Plane Geometry—Wentworth.

LATIN.

1. Latin Grammar—Allen and Greenough's, or Harkness'.
2. Daniell's Latin Prose Composition.
3. Four books of Cæsar's Commentaries.
4. Six Orations of Cicero.
5. Six books of Vergil's Æneid.

GREEK.

1. Greek Grammar—Hadley and Allen's, or Goodwin's.
2. The equivalent of Jones' Greek Prose Composition—20 Lessons.
3. Greek Reader.
4. Four books of Xenophon's Anabasis.
5. Three books of Homer's Iliad.

HISTORY.

1. History of Rome.
2. History of Greece.
3. Elements of United States History.

SCIENCE.

1. Geography—Descriptive, Political and Physical.
2. The student is recommended to read some elementary work on Physics and Physiology, also Morse's First Book in Zoölogy, Gray's How Plants Grow, and Dana's Geological Story Briefly Told. This reading should be done before entering upon the studies of the Sophomore Year. The necessary books can be obtained in the University Library.

In any of the subjects of examination, satisfactory equivalents will be accepted instead of the text-books named.

II. THE PHILOSOPHICAL COURSE.

I. THE LATIN DIVISION.—To enter the Latin Division of the Philosophical Course, the candidate must sustain an examination in the above named studies, except Greek, and in Elementary Physics and Physiology.

II. THE GREEK DIVISION.—To enter the Greek Division of the Philosophical Course, the candidate must sustain an examination in the above named studies, except Cicero and Vergil, and in Elementary Physics and Physiology.

III. THE SCIENTIFIC COURSE.

To enter the Scientific Course, the candidate must sustain examination in English Grammar, Elements of Rhetoric, English Composition, Arithmetic, including the Metric System, Algebra, through Quadratic Equations and Plane Geometry; Latin Grammar, Latin Composition (Daniell's Part I, or an equivalent), Cæsar's Latin Commentaries, Four Books; Elementary Physics, Physiology and Hygiene, and Botany; Geography, Mathematical, Political and Physical; History of the United States, General History and Civil Government.

CONDITIONAL ADMISSION.

A candidate failing to pass in one or more of the subjects required for admission may, at the discretion of the Faculty, be admitted to his class conditionally, to make up his deficiencies by extra study. When they are made up, he will be received into full standing in his class.

SPECIAL STUDENTS.

Young men who do not desire to take a full regular course can enter and select special shorter courses, with the sanction of the Faculty; but in all cases satisfactory examinations must be passed upon the subjects required for admission to the Freshman Class of the course from which they intend to select.

Students who have completed a course of study in preparatory schools of high grade may be admitted upon the certificate of the Principal of the school from which they come. Blank forms may be obtained by addressing the Registrar.

Graduates from Bucknell Academy in the Classical Course, or in the Scientific Course, will be admitted to the corresponding course in College upon the certificate of the Principal of the Academy.

Graduates of Pennsylvania State Normal Schools are admitted to the Scientific Course without examination.

TO ADVANCED STANDING.

I. **General Requirements.**—A proportionate increase of age is requisite for admission to advanced classes, over that required for admission to Freshman standing Other general requirements are the same as for admission to the Freshman Class.

II. **Particular Requirements.**—Candidates for admission to advanced classes are examined both as for admission to Freshman standing, and also in the studies that have been pursued by the class which they desire to enter.

LOCAL EXAMINATION FOR ADMISSION.

Arrangements have been made for conducting entrance examinations at Philadelphia, Pittsburg, Harrisburg and Scranton. Those intending to present themselves for examination at either of these places should inform the President of the University of their intention, and the necessary information as to details will be furnished.

These examinations will be held Friday, June 16th, 1893.

COURSES OF STUDY.

The following Courses of Study may be pursued in the College:—

I. **The Classical Course** extends through four years, and aims to furnish a liberal education in the classics, the sciences, the arts, and literature. It comprises, substantially, the studies of the established college curriculum, with the addition of such branches as modern life seems to demand. The studies in the Freshman and Sophomore years are all required; in the Junior and Senior years two studies each term are required, and an elective is permitted from a number of others. Students who have satisfactorily pursued this course are admitted to the degree of Bachelor of Arts.

II. **The Philosophical Course**, with Latin or Greek, in each of its two divisions, also extends through four years, and aims to furnish a thorough training in advanced studies to those who desire to pursue but one of the Ancient Languages. This course contains five terms of such language study, be it of Latin or Greek, most of the other studies of the Classical Course, with some addition of Scientific subjects. Students pursuing this course, recite, as far as possible, with classical students. Those who have satisfactorily completed the studies of the course are admitted to the degree of Bachelor of Philosophy.

III. **The Scientific Course** extends through four years, and is substantially the same as the Philosophical Course, with the substitution of additional Mathematical and Scientific studies for Latin and Greek. Those who have completed the course are admitted to the degree of Bachelor of Science.

In the selection of optional studies in the above courses, the choice must be made with the approbation of the Faculty.

IV. **The Eclectic Course** is not limited to any definite time, and does not lead to any degree. It is designed to furnish advanced instruction in literature, science, and the arts to students who do not intend to pursue a regular course of study, but desire to select certain branches. The College will furnish special students with such studies as they may elect only at times announced in the Curricula, found on another page. Every student is required to select at least three studies from those taught during any given term, and these are to be pursued at the same time. Students will not be allowed to pursue studies for which they are not fully qualified by their previous training. A certificate will be given by the President at any time, stating what studies have been completed and the grade attained in them. This certificate will be accepted as equivalent to an examination, provided the holder, at any time, prefers to be transferred to any one of the regular courses.

V. **Advanced Courses** in Literature, Philosophy and Science have been established, leading respectively to the degrees of Master of Arts, Master of Philosophy and Master of Science. These courses are open to graduates of Bucknell University. Particulars may be learned by addressing the President.

CURRICULA.

THE CLASSICAL COURSE.

Leading to the Degree of Bachelor of Arts.

FRESHMAN YEAR.

I. TERM—Geometry, Practical Ethics,
Algebra, Hygiene,
Cicero de Senectute et de Am., Elocution,
Lysias' Orations, English Composition,
Greek Prose Composition. Lectures on the Essay.

II. TERM—Trigonometry, Derivatives,
Livy, Elocution,
Herodotus and Thucydides, English Composition,
Greek Testament.

III. TERM—Analytical Geometry, Chemistry,
Tacitus and Pliny, Elocution,
Odyssey, English Composition,
Greek Testament.

SOPHOMORE YEAR.

I. TERM—General Chemistry, Linear Perspective,
Horace, Elocution,
Rhetoric. English Composition.

II. TERM—Animal Physiology, Greek Literature,
Demosthenes, Elocution,
English Literature. English Composition.

III. TERM—Botany, Mineralogy,
German, Elocution,
Juvenal, or English Composition.
Analytical Chemistry.

JUNIOR YEAR.

I. TERM—Mechanics, History of Education,
French, Orations,
Elocution.
ELECTIVE STUDIES:
Sophocles, *Surveying*,
German, *Zoölogy*,
Quintilian.

II. TERM—Physics, Electricity and Magnetism,
Orations. Elocution.

ELECTIVE STUDIES:

Latin Poets, *Logic*,
French, *Differential Calculus*,
German, *Quantitative Analysis*,
Hebrew, *Animal Histology*,
English Bible.

III. TERM—Astronomy, English Versification,
Orations. Elocution.

ELECTIVE STUDIES:

Plato, *Integral Calculus*,
Cicero de Natura Deorum, *Physics*,
French, *Analytical Chemistry*, or
English Oratory, *Applied Chemistry*,
English Bible. *Biology.*

SENIOR YEAR.

I. TERM—Psychology, Periods in English Prose,
Geology, Orations,
Extemporaneous Speaking.

*ELECTIVE STUDIES:

Tacitus: *Annals*, *Practical Astronomy*,
Anglo-Saxon, *Plant Histology*,
Mediæval History.

II. TERM—Ethics, History of Philosophy,
Sanitary Science, Orations,
Extemporaneous Speaking.

*ELECTIVE STUDIES:

Demosthenes de Corona, *Economics*,
History of Modern Europe, *Comparative Anatomy*,
Roman Law.

III. TERM—Theism, Anthropology,
Orations.

*ELECTIVE STUDIES:

Seneca, *Constitutional Law*,
Shakespeare, *Animal Embryology*,
Greek Testament.

*Seniors may take any of the electives of the Junior year for corresponding terms.

II. THE PHILOSOPHICAL COURSE.

Leading to the Degree of Bachelor of Philosophy.

A. Latin Division.

FRESHMAN YEAR.

I. TERM—Geometry, Practical Ethics,
Algebra, Hygiene,
German, Elocution,
Cicero de Senectute de Am., Lectures on the Essay,
English Composition.

II. TERM—Trigonometry, Derivatives,
German, Elocution,
Livy. English Composition.

III. TERM—Analytical Geometry, Chemistry,
German, Elocution,
Tacitus and Pliny. English Composition.

SOPHOMORE YEAR.

I. TERM—Chemistry, Linear Perspective,
Rhetoric, Elocution,
Horace. English Composition.

II. TERM—Animal Physiology, Physiology,
English Literature, Elocution,
Differential Calculus. English Composition.

III. TERM—Botany, Mineralogy,
Analytical Chemistry, Elocution,
Juvenal, or *Integral Calculus.* English Composition.

JUNIOR YEAR.

I. TERM—Mechanics, History of Education,
French, Orations,
Elocution.

ELECTIVE STUDIES:

Quintilian, *Surveying*,
German. *Zoölogy.*

II. TERM—Physics, Electricity and Magnetism,
Orations. Elocution.

ELECTIVE STUDIES:

Latin Poets, *Logic*,
French, *Quantitative Analysis*,
German, *Animal Histology*,
Hebrew. *English Bible.*

III. TERM—Astronomy, English Versification,
Orations. Elocution.

ELECTIVE STUDIES:

Cicero de Natura Deorum, *Integral Calculus*,
French, *Physics*,
English Oratory, *Applied Chemistry*,
English Bible. *Biology.*

SENIOR YEAR.

I. TERM—Psychology, Periods in English Prose,
Geology, Orations,
Extemporaneous Speaking.

*ELECTIVE STUDIES:

Tacitus: Annals, *Practical Astronomy*,
Anglo-Saxon, *Plant Histology*,
Mediæval History.

II. TERM—Ethics, History of Philosophy,
Sanitary Science, Orations,
Extemporaneous Speaking.

*ELECTIVE STUDIES:

History of Modern Europe, *Economics*,
Roman Law. *Comparative Anatomy.*

III. TERM—Theism, Anthropology,
Orations.

*ELECTIVE STUDIES:

Seneca, *Constitutional Law*,
Shakespeare. *Animal Embryology.*

B. Greek Division.

FRESHMAN YEAR.

I. TERM—Geometry, Practical Ethics,
Algebra, Hygiene,
German, Elocution,
Lysias' Orations, English Composition,
Lectures on the Essay.

II. TERM—Trigonometry, Derivatives,
German, Elocution,
Herodotus and Thucydides. English Composition.

III. TERM—Analytical Geometry, Chemistry,
German, Elocution,
Odyssey. English Composition.

SOPHOMORE YEAR.

I. TERM—Chemistry, Linear Perspective,
Rhetoric, Elocution,
Xenophon's Memorabilia. English Composition.

II. TERM—Animal Physiology, Greek Literature,
English Literature, Elocution,
Demosthenes, English Composition.

III. TERM—Botany, Mineralogy,
Analytical Chemistry, Elocution,
English Oratory or *Integral Calculus.* English Composition.

JUNIOR YEAR.

I. TERM—Mechanics, History of Education,
French, Orations.
Elocution.

ELECTIVE STUDIES:

Sophocles, *Surveying*,
German. *Zoölogy*.

II. TERM—Physics, Electricity and Magnetism,
Orations. Elocution.

ELECTIVE STUDIES:

Logic, *Differential Calculus*,
French, *Quantitative Analysis*,
German, *Animal Histology*,
English Bible. *Hebrew*.

III. TERM—Astronomy, English Versification,
Orations. Elocution.

ELECTIVE STUDIES:

Plato, *Integral Calculus*,
French, *Physics*,
Biology, *Applied Chemistry*,
English Bible.

SENIOR YEAR.

I. TERM—Psychology, Periods in English Prose,
Geology, Orations,
Extemporaneous Speaking.

* ELECTIVE STUDIES:

Anglo-Saxon, *Practical Astronomy*,
Mediæval History. *Plant Histology*.

II. TERM—Ethics, History of Philosphy,
Sanitary Science. Orations.

* ELECTIVE STUDIES:

History of Modern Europe, *Economics*,
Roman Law, *Comparative Anatomy*,
Demosthenes de Corona.

III. TERM—Theism, Anthropology,
Orations.

* ELECTIVE STUDIES:

Shakespeare, *Constitutional Law*,
Greek Testament. *Animal Embryology*.

*Seniors may take any of the electives of the Junior year for corresponding terms.

III. THE SCIENTIFIC COURSE.

Leading to the Degree of Bachelor of Science.

FRESHMAN YEAR.

I. TERM—Geometry, Hygiene,
Algebra, Elocution,
German, English Composition,
French or *Latin*, Lectures on the Essay,
Chemistry.

II. TERM—Trigonometry, Derivatives,
German, Elocution,
French or *Latin*, English Composition,
Literature.

III. TERM—Analytical Geometry, Chemistry,
German, Elocution,
French or *Latin*, English Composition,
Descriptive Anthropology.

SOPHOMORE YEAR.

I. TERM—Rhetoric, Linear Perspective,
Chemistry, Elocution,
Surveying. English Composition.

II. TERM—English Literature, Physiology,
Animal Physiology, Elocution,
Differential Calculus. English Composition.

III. TERM—Botany, Mineralogy,
Analytical Chemistry, Elocution,
Integral Calculus. English Composition.

JUNIOR YEAR.

I. TERM—Mechanics, History of Education,
Orations. Elocution.

ELECTIVE STUDIES:

German, *French*,
Zoölogy.

II. TERM—Physics, Electricity and Magnetism,
Orations. Elocution.

ELECTIVE STUDIES:

German, *Quantitative Analysis*,
French, *Animal Histology*,
English Bible. *Hebrew.*

III. TERM—Astronomy, English Versification,
Orations. Elocution.

ELECTIVE STUDIES:

French, *Physics*,
English Oratory, *Applied Chemistry*,
English Bible. *Biology.*

SENIOR YEAR.

I. TERM—Psychology, Periods in English Prose,
Geology, Orations,
Extemporaneous Speaking.

* ELECTIVE STUDIES:

Anglo-Saxon, *Practical Astronomy*,
Mediæval History. *Plant Histology.*

II. TERM—Ethics, History of Philosophy,
Sanitary Science, Orations,
Extemporaneous Speaking.

* ELECTIVE STUDIES:

History of Modern Europe, *Economics*,
Roman Law. *Comparative Anatomy.*

III. TERM—Theism, Anthropology,
Orations.

* ELECTIVE STUDIES:

Shakespeare, *Constitutional Law*,
Animal Embryology.

* Seniors may take any of the electives of the Junior year for corresponding terms.

LECTURES.

THURSDAY MORNINGS.

The following Courses of Thursday morning Lectures have been established. The lectures are given immediately after the chapel exercises, and are for one hour each.

SENIOR CLASS.

I. TERM—Professor Perrine on Periods in English Prose.
II. TERM—The President on Philosophy.
III. TERM—The President on Anthropology.

JUNIOR CLASS.

I. TERM—The President on the History of Education.
II. TERM—Professor Owens on Electricity and Magnetism.
III. TERM—Professor Perrine on English Versification.

SOPHOMORE CLASS.

I. TERM—Professor Bartol on Linear Perspective.
II. TERM—Professor Hamblin on Greek Literature.
Professor Groff on Physiology.
III. Term—Professor Groff on Mineralogy.

FRESHMAN CLASS.

I. TERM—Professor Groff on Hygiene, (half term).
Professor Perrine on the Essay and Oration, (half term).
II. TERM—Professor Bartol on Derivatives.
III. TERM—Professor Owens on Chemistry.

MONDAY MORNINGS.

SENIOR CLASS.

During the second term, Professor Groff will deliver a course of lectures on Sanitary Science.

SPECIAL LECTURES AND ADDRESSES, 1892.

The following special lectures and addresses were delivered the past year before the students of the University:

I. William Thomas Chase, D. D.; sermon before the Christian Associations.

II. Henry Clay Applegarth, Jr.; sermon on The Day of Prayer for Colleges."

III. Thomas Hinds Chapman, A. M.; sermon before the Education Society.

IV. George Dana Boardman, D. D., LL.D.; lecture on "Divine Forms and Human Figures."

V. John Sexton James, D. D.; address on "The Untaught Classic."

VI. Warren Graham Partridge, A. M.; address to the Graduating Class, College.

VII. Joseph Kossuth Dixon, A. M.; address on "Columbus Day."

VIII. Charles Luther Williams, A. M.; lecture on "Pessimism, or the Vinegar Philosophy of Life."

IX. Joseph Moore, Jr., F. R. G. S., F. R. S. S.; lecture on "Scenes in India."

X. Albert White Vorse, A. M.; lecture on "The Peary Expedition to Greenland."

UNIVERSITY SERMONS.

Every third Sunday afternoon, during the school year, a special sermon is delivered before the students of the University, in Bucknell Hall. The following are the appointments thus far this year:

I. President John Howard Harris; September 18, 1892.

II. Robert Gillen Seymour, D. D.; October 16, 1892.

III. Charles Luther Williams, A. M.; November 20, 1892.

IV. Job Hodson Chambers, A. M.; January 15, 1893.

V. Warren Graham Partridge, A. M.; February 19, 1893.

VI. President John Howard Harris; March 19, 1893.

VII. Owen James, A. M.; April 16, 1893.

DEPARTMENTS OF INSTRUCTION.

The method of instruction in the College is partly by text-books, and partly by lectures, according to the nature of the subject discussed. Each Professor has his individual mode of imparting knowledge, and this, in the result, is advantageous to the learner. In general, the aim is to discuss each subject as far as possible as the subject matter requires, yet all branches are presented practically, comparatively and historically, with the view of leading the student to the apprehension of the subject as a whole, and in its organic relations, and not to fill the memory with the phraseology of a text-book. The range and character of the instruction can be most accurately gathered from the following account of the different departments.

I. ELOCUTION AND ORATORY.

INSTRUCTOR PHILLIPS.

The aim is to train the student to speak effectively either in the pulpit or upon the platform or at the bar. Each student receives individual attention during the first half of the course in Elocution, during the latter half in Oratory.

Each member of the Freshman Class is required to present two declamations each term. A prize contest is held in the second term.

Each member of the Sophomore Class is required to present one declamation each term. A prize contest in declamation is given in the first term of each year.

Each member of the Junior Class pronounces two orations in every term. During the year there are three public exhibitions, the last of which is a prize contest.

One oration a term is required from every member of the Senior Class, and two of these are delivered publicly. A prize for the best oration on Commencement day is offered.

Special attention is paid to Debates and Extemporaneous Speaking. During the third term of the Junior year, debates will be held on assigned topics; and during the Senior year, exercises in debate and extemporaneous speaking will be held in connection with the lectures on Anthropology and Social Science.

II. THE ENGLISH LANGUAGE AND LITERATURE.

PROFESSOR PERRINE.

I. PREPARATORY WORK.

It is assumed that the student has become thoroughly grounded in the essentials of Grammar; that he has mastered the elements of Rhetoric as presented in Williams' Rhetoric, or any other of similar grade; and that he is able

to express his thoughts clearly and concisely. Special attention is also called to the required reading of English classics—a list is given elsewhere—and it is presumed that by reading them, the student has become more or less familiar with the leading forms of literary expression,—the drama, the novel, the essay, the oration. This reading should not be done as a pastime, but under competent direction, with the end in view of making a scholarly acquaintance with the authors read; and it is desired that at least the authors suggested should be read, in order to secure uniformity of preparation among the members of the class.

II. AIM AND METHODS.

The aim is to cultivate the power and habit of (1) accurate thinking, (2) correct and effective composition, (3) intelligent criticism of leading English authors; and to acquire (4) a scientific knowledge of the Origin and Development of the English Language. The methods are largely those known as Laboratory Methods, and in all cases where possible the method of independent investigation will be pursued. The course in Rhetoric is after the constructive rather than the critical method, although both kinds will be used as occasion demands. The course in English Literature will pay less attention to the text-book than to a critical reading, in the class, of the representative work of each author studied. The student will be urged to know rather than to know about English Literature. The course in Logic will have to do with the construction and analysis of arguments in their bearing upon public debate, while at the same time it will lead by natural steps to those studies of a later period which presume a knowledge of the science.

III. COURSES.

I. **Rhetoric.**—Genung's Practical Rhetoric and Genung's Rhetorical Analysis. Essays every week based on Lewes' Principles of Success in Literature. Analysis of themes, criticisms of plans, and exercises in all the forms of Composition discussed, are required. First term, Sophomore year.

II. **English Literature.**—Emery's Outlines of Notes on English Literature. The authors studied and the texts required are, Chaucer's Prologue to the Canterbury Tales, with the Knight's Tale; Shakespeare's As You Like It; Milton's Comus; Pope's Essay on Criticism; Wordsworth's Poems, selected by Arnold; Selections from Tennyson. Second term, Sophomore year.

III. **Logic.**—Hyslop's Elements of Logic. Second term, Junior year.

IV. **English Oratory.**—A careful study of the English Orators will be made, as far as time will permit, with reference to the peculiarities of each period and especially to those of the present day. Clarke's Political Orations is recommended, and special work will be required in Quintilian's Institutes and Cicero de Oratore. As this is one of the electives of the third term in the Junior year, there will be opportunity for an extended course. The Library has recently been enriched in this department.

V. **Anglo-Saxon.**—Sweet's Anglo-Saxon Reader. First term, Senior year.

VI. **Shakespeare.**—A study of Mid-Summer Night's Dream, Hamlet, and Tempest, to show the development of the poet's mind and art. Third term, Senior year.

VII. **The Essay and the Oration.**—Lectures are given to the Freshmen on "The Essay and the Oration," as an especial preparation for the practical work

of the course, and supplementary to the work assumed to have been done in the preparatory schools.

VIII. **English Versification.**—On the successive Thursday mornings of the third term, a course of lectures to the Junior Class on English Versification as shown in Tennyson.

IX. **English Prose.**—A critical study of the development of English Prose, using Garnett's English Prose from Elizabeth to Victoria. Senior class, first term.

X. **Essays and Orations.**—The Freshmen are required to present two essays in the first term, and three in the second and third terms, respectively; the Sophomores, three essays each term; the Juniors, two orations, and the Seniors one oration each term. The orations presented at the exercises of Junior Exhibition and Commencement will be received as two of the required orations. Both Essays and Orations are criticised with the author, if necessary.

HONOR COURSES IN ENGLISH.

1. American Literature, comprising lectures on Bryant, Hawthorne, Longfellow, Lowell, Whittier and Holmes, with Discussions and Theses.
2. Milton's Paradise Lost, R. C. Browne's Milton, and S. A. Brooke's Life of Milton, with required Theses.
3. Skeat's Specimens of English Literature, 1394-1579.
4. Skeat's Piers the Plowman.
5. The Ormulum and The Ancren Riwle, Sweet's edition.

III. THE LATIN LANGUAGE AND LITERATURE.

PROFESSOR ROCKWOOD.

There are four terms of required work in this department and seven of elective. Honor courses may be pursued in any term except the first term of the Freshman year.

In the prescribed work the courses offered and the methods of instruction employed are designed to give the student accuracy and facility in translating Latin into correct, idiomatic English; the ability to read and appreciate the text in the original; a general acquaintance with the growth and development of the language and literature; a knowledge of the leading facts in Roman history; and some degree of familiarity with the life of the people. In the first term the text is carefully studied with special reference to forms and constructions, and considerable time is given to written translations and to oral and written composition. It is believed that in this way the faithful student can become thoroughly grounded in the elements of the language and be prepared to pursue his subsequent reading with pleasure and profit. After the first term historical and literary topics are given greater prominence. Collateral reading is required in Liddell, Merivale, and Capes. Wilkins' Primer, supplemented by lectures, is made the basis of an outline course on Roman Literature.

In the elective courses a wide range of reading is offered. While particular lines of study have been marked out, different authors may be substituted in place of those announced in the catalogue. In all cases it is the intention to

suit the work to the needs of the class. Provision is made for those who wish by varied reading to gain as large an acquaintance with the literature as possible, and also for those who desire to make a specialty of Roman history or philosophy. Students intending to become teachers are aided and directed in their work with that object in view. In the elective courses less time is devoted to formal recitations than is the case in the prescribed work, while more attention is given to the preparation of papers on assigned topics by members of the class and to lectures and discussions by the instructor. Lectures are given on Roman Antiquities, and these, so far as possible, are illustrated by wall-pictures, plates and photographs.

COURSES: 1–4 required; 5–11 elective; 12–20 honor courses.

1. **Cicero:** *De Senectute* and *De Amicitia.* Review of special topics in Latin Grammar. Oral and written exercises in Prose Composition, based upon the text. Translation at sight and at hearing. First term, Freshman year.

2. **Livy:** Books XXI and XXII. Selections from Books I and II, at sight. Latin Prose Composition, based upon the text. Roman History: Special chapters in Liddell. Second term, Freshman year.

3. **Tacitus:** *Agricola* and *Germania.* PLINY: Selections from the Epistles. Translation at sight. Latin Prose Composition, based upon the text. Roman History: Capes' Early Empire; lectures. Third term, Freshman year.

4. **Horace:** Selections from the Satires, Odes, and Epistles. Prosody. Lectures on Roman life in the time of Augustus. Historical outlines of the Latin Language and Literature: Wilkins' Primer; lectures. First term, Sophomore year.

5. **Juvenal:** Selected Satires. Translation at sight. Roman History: Capes and Merivale. Roman Antiquities: Lectures. Third term, Sophomore year.

6. **Quintilian:** Books X and XII. Selections from Book I, at sight. Roman Literature: Readings from Cruttwell and Teuffel. First term, Junior year.

7. **Latin Poets:** Selections from Catullus, Lucretius, Tibullus, Propertius, Ovid, and Lucan. Lectures and collateral reading upon topics suggested by the authors studied. Second term, Junior year.

8. **Cicero:** *De Natura Deorum.* The object of this course is to give the student an outline of the Stoic, Epicurean, and Academic systems of philosophy. Members of the class are required to prepare papers upon special topics. Third term, Junior year.

9. **Tacitus:** The Annals. Large amounts are read at sight. Special topics in Roman History are assigned for study. First term, Senior year.

10. **Roman Law:** Instruction is given by text-book (Hadley's) and by lectures. Students are required to read on assigned topics and to make reports upon the same to the class. Second term, Senior year.

11. **Seneca:** Selections from his Moral Essays. Special study of his life, times, and philosophy. Third term, Senior year.

12. **Ovid:** Selections from the *Metamorphoses* and *Tristia.* Second or third term, Freshman year.

13. **Vergil:** The Georgics; Æneid, Books VII–XII. Second or third term, Freshman year.

14. **Cicero:** Selected Letters; *De Officiis.* Sophomore year.

15. **Plautus and Terence:** Selected Plays. Allen's Remnants of Early Latin. Wordsworth's Fragments and Specimens of Early Latin. Sophomore or Junior year.

16. **Cicero:** *De Oratore; Brutus.* Sophomore or Junior year.

17. **Tacitus:** Histories. Junior or Senior year.

18. **Suetonius:** *De Vita Cæsarum.* CÆSAR: *De Bello Civili.* Junior or Senior year.

19. **Tertullian;** The Apology. LATIN HYMNS. Senior year.

20. **Roman Private Life.** Junior or Senior year.

The following books are used: Kelsey's Cicero *de Senectute et de Amicitia;* Lord's Livy; Hopkins' *Agricola* and *Germania* of Tacitus; Holbrooke's Pliny; Lincoln's Horace; Lindsay's Juvenal; Frieze's Quintilian; Crowell's Selections from Latin Poets; Stickney's Cicero *de Natura Deorum;* Allen's Tacitus' Annals; Hadley's Roman Law; Hurst and Whiting's Seneca; Allen and Greenough's Ovid and Vergil; Holden's Cicero *de Officiis;* Fowler's Plautus; West's Terence; Kellogg's Cicero's *Brutus;* Tyler's Histories of Tacitus; Peck's Suetonius; March's Tertullian and Latin Hymns. Allen and Greenough's and Harkness' Latin Grammars; Harpers' Latin Dictionary.

IV. THE GREEK LANGUAGE AND LITERATURE.

PROFESSOR HAMBLIN.

I. PREPARATION.

It is expected that the student in his preparatory course has mastered the Attic forms, the most common principles of syntax, the "principal parts" of the most common irregular verbs, and the correct writing of simple Greek sentences. He ought also to be able to read the Greek text fluently and to understand short Greek sentences when spoken to him. To facilitate this end, it is recommended that the Greek text be read orally from the beginning of the study of the languange, and that composition in Greek be continued through the whole of the preparatory course. Much help may be obtained from "Natural" and "Inductive" methods. While a definite amount of the Anabasis and Iliad is elsewhere stated as required, yet quality of work is preferred to quantity. It is desired that the preparatory course be made as far as possible a mastery of the principles of the *language*, that the literature and civilization of the Greeks may occupy the larger part of the student's attention in his subsequent study.

II. AIM AND METHODS.

The first end sought is an accurate and thorough knowledge of the language as a means of discipline to the mind and as the key to the literature. The first part of the Freshman year is devoted largely to grammatical topics in

connection with the authors read. But the student is encouraged to gather facts and to formulate principles from the text rather than to memorize the standard grammars. Translation in idiomatic English is required, yet as near as possible to the literal of the original. Translation at sight and at hearing is practiced during the whole course at such times as the needs of various classes seem to require. All possible inducements are offered to make the student self-reliant and independent in his work.

The literature, history, social and political ideas of the Greeks, their position in ancient civilization and relation to modern life and thought, are topics which occupy a very important part of the work in this department. In this way it is sought to inspire a living interest in the civilization of ancient Greece, to show the essential unity of history, and to encourage the study of ancient life for the lessons which it has for the present time.

III. COURSES.

1. LYSIAS.—Selected orations are read almost exclusively as a study of *language.* Review of the more difficult parts of Greek Grammar. Special attention to the translation and syntax of the Greek verb. Weekly exercises in Greek Prose Composition ; these exercises are based upon the text read Occasional written translations and examinations. First term, Freshman year.

2. HERODOTUS AND THUCYDIDES.—Selected portions of one or both authors. Peculiarities of dialect of Herodotus. Formation and derivation of words. Literal translation. Reading of assigned portions of standard Greek histories. Second term, Freshman year.

3. HOMER.— Odyssey, Books 1, 2, 9–12. Dialect, metre, syntax, style. Topics for investigation assigned to members of the class. The object sought is to help the student to understand and to appreciate, rather than to criticise, the Homeric Poems. Third term, Freshman year.

4. XENOPHON.—Selected portions of the Memorabilia. The life of Socrates. For students in the Philosophical course. First term, Sophomore year.

5. DEMOSTHENES.—Olynthiacs and Philippics. History and politics of the Macedonian Period. Lectures on the chief periods of Greek literature. Second term, Sophomore year.

6. THE GREEK DRAMA.—Sophocles or Euripides. For the present the Oedipus Tyrannus is read. The origin and development of the drama, the Greek theatre, and the metres of the drama. First term, Junior year.

7. PLATO.—The Apology and Crito. Philosophy and religious ideas of Socrates. The Sophists. Topics for investigation in standard authors. Extracts from the Memorabilia at sight. Third term, Junior year.

8. DEMOSTHENES.—De Corona. Designed to supplement course 5 and to make a critical study of the oratory of Demosthenes from both a literary and political point of view. Second term, Senior year.

9. NEW TESTAMENT GREEK.—One of the Gospels and some of the Epistles. A course in rapid reading designed to familiarize the student with the style, so that he may continue to read the Greek New Testament throughout his College course. Second and third terms, Freshman year, weekly. Also an Elective third term, Senior year, five hours a week.

IV. HONOR COURSES IN GREEK.

10. Xenophon's Memorabilia.
11. Odyssey.—Supplemental to course three.
12. Orators.—Selected orations from the Attic Orators.
13. Plato's Phædo.
14. Greek Comedy.—Clouds of Aristophanes.
15. New Testament Greek.—Supplemental to course nine.

V. TEXT-BOOK.

Stevens' Select Orations of Lysias; Mather's Selections from Herodotus and Thucydides; Merry's Odyssey, Books 1–12; Seymour's Introduction to the Language and verse of Homer; Tyler's Olynthiacs and Philippics; White's Oedipus Tyrannus; Dyer's Plato's Apology and Crito; Wynan's Memorabilia; D'Ooge's De Corona; Humphrey's Clouds; Wagner's Phædo; Scrivener's or Westcott and Hort's Greek Testament; Hadley and Allen's Greek Grammar; Liddell and Scott's Greek Lexicon; Oman's History of Greece.

V. HEBREW LANGUAGE.

It is the aim of this course to give the student a working knowledge of the Hebrew language. Grammatical principles and translation. Harper's *Introductory Hebrew Method.* Second term, elective for Juniors and Seniors. Five hours.

VI. MODERN LANGUAGES.

PROFESSOR LOOMIS.

In the Classical Course there are, as required studies, daily recitations in both French and German for a period of thirteen weeks. Attention is given, first, to the elements of Grammar; afterwards, to the critical reading of some of the masterpieces of either language. The method of instruction is inductive as well as deductive, and as large a proportion of attention as can profitably be so devoted within the limitations of a college course is aimed to be given in both languages to practical exercises. These embrace an extended course in French and German Composition.

In both divisions of the Philosophical Course the study of German is continued as a daily recitation through the Freshman year. The students in the Scientific Course likewise take French as a daily recitation through the Freshman year. Other divisions of the Scientific Course recite French with Classical students.

French and German may each, as optional studies, continue to be pursued by all students in a daily recitation for two additional terms. The following are details of courses offered:

GERMAN.

1. Required, in Classical Course.—Whitney's Brief German Grammar, complete. Translation of German Exercises into English. Review of Gram-

mar. Translation of English Exercises into German. Irregular Verbs. Joynes' German Reader, 100 pages.

2. OPTIONAL, for all courses —Meissner's Pictures of German Life. Storme's Immersee. Hiller's Höher als die Kirche. Bernhardt's Novelletten Bibliothek, 1st vol. German Prose Composition.

3. OPTIONAL, for all classes.—François' Phosphorus Hollunder. Jensen's Die braune Erica. Freytag's Soll und Haben. Stifter's Das Haidedorf. German Prose Composition.

FRENCH.

1. REQUIRED, for Classical and Philosophical Course.—Whitney's Brief French Grammar, complete, with translation of French Exercises into English. Review of the Grammar. Translation of the English Exercises into French. Irregular Verbs. Whitney's Introductory French Reader, 160 pages. French Pronounciation.

2. OPTIONAL, for all courses.—Fontaine's Historiettes Modernes, 2d vol. Russell's Mérimée's Mateo Falcone, Tamango, L'Enlêvement de la Redoute. Russell's Malot's Sans Famille. Musset's Pierre et Camille. Selections from Jules Claretie; Dumas, *fils*; André Theuriet; Alphonse Daudet. French Prose Composition.

3. OPTIONAL.—George Sands' La Famille de Germandre. Erckmann-Chatrian's Madame Thérèse. French Prose Composition.

VII. MATHEMATICS AND ASTRONOMY.

PROFESSOR BARTOL.

Solid Geometry.—The course includes the study of lines and planes in space, solids with plane surfaces, the spherical triangle, and common forms of solids with curved surfaces, such as the cone, the cylinder, and the sphere.

The student is required to demonstrate the theorems of the text-book. But a prominent part of the course is the original demonstration of additional theorems, and applications in the solution of numerical problems.

Trigonometry.—The course includes Plane Trigonometry, with applications to problems in mensuration and surveying, and Spherical Trigonometry, with some applications to problems in nautical astronomy.

Functions of the angles are considered as ratios. The method of representing these functions by lines, and the use of these lines in investigating the relations of the functions, is discussed at some length. Time is given to the numerical illustration of principles, for the purpose of making sure that the meaning and use of formulæ, demonstrated and learned, is thoroughly understood.

Higher Algebra.—The topics discussed are ratio and proportion, variation, progressions, permutations and combinations, binominal theorem, undetermined coëfficients, summation of series, logarithms, general theory of equations, and the solution of higher numerical equations. Some time is given to the graphical representation of the relations of quantities. As a means to clear and concise proofs of the binominal theorem, logarithmic series, and exponential series, the elementary theory of derivatives is introduced in a course of lectures.

Analytical Geometry.—The student will be taken through the elementary properties of the right line and the conic sections. There will be in addition, a brief discussion of the general equation of the second degree, some important higher plane curves, and loci in space. The course is intended to give a clear conception of the method of Cartesian Analysis, rather than an extensive knowledge of its results.

Surveying.—Fourteen weeks are given to this subject. In chain surveying full directions are given for measuring and ranging out lines, for making and reducing field notes, and for plotting. In compass and transit surveying a careful study of the necessary instruments is made. The student is taught their adjustments and the best methods of reducing their errors. He is instructed in the various ways of obtaining the proper data in the field, for his work, and in the best tests of the accuracy of his field notes. He is made acquainted with the variations of the compass, and such tables and methods are furnished him as will enable him to establish, with some precision, his geographical meridian, and undertake the retracing of old lines. The system practiced by the government in the survey of public lands is fully set forth. Under the subject of city surveying full directions are given with respect to grades, sewers, the establishment of permanent reference points and the adjustment of property lines. Under mine surveying, in connection with those things peculiar to this branch, directions are also given for running contours and sketching topography. Some observations are made for latitude and time.

Differential Calculus.—This course proceeds throughout upon the method of infinitesimals, but for purposes of comparison, the student is instructed also in the method of limits. The course includes the differentiation of algebraic and transcendental functions, the development of functions into series, evaluation of undetermined forms, determination of maxima and minima, and applications to the theory of curves. The rules and principles are illustrated and enforced by numerous examples of a practical character.

Integral Calculus.—The course includes the methods of integration by parts, by substitution and rationalization, by successive reductions, and by series. There are some applications of integration to plane curves, to plane areas, and to certain volumes. The utility of this analysis is exemplified by the solution of a variety of problems in mechanics and astronomy.

Astronomy.—The required course is completed with the subject of General Astronomy, but the aim is to treat astronomy not merely as an application of mathematics, but as a science which forms an essential part of a finished education. This subject is taught by text-book, with illustrations in the observatory, and some lectures. There is free use by the student of the ten-inch equatorial telescope, to verify the statements of descriptive astronomy.

Practical Astronomy.—Observations are made for time, and to determine the errors of the transit instrument. The use of the micrometer is taught and the value of one revolution of its screw is determined experimentally. The adjustments of the equatorial for correct position are made. Observations are made for azimuth, and for latitude and longitude. The student is required to make all such astronomical observations as are requisites in a practical acquaintance with the subject of geodetic surveying, and to reduce his notes in the use of the nautical almanac and methods of reduction not involving the calculus. Time is given to calculations of eclipses and star occulations.

The following books are used: Miller's Treatise on Trigonometry; Wells' University Algebra; Nichol's Analytical Geometry; Bowser's Calculus; Carhart's Plane Surveying; Olmsted's College Astronomy; Loomis' Practical Astronomy.

VIII. CHEMISTRY.

PROFESSOR OWENS.

Physics.—The course in Physics extends through the Junior year, supplemented by a course of lectures on Electricity and Magnetism. The first term is devoted to the study of the mechanics of solids, liquids, and gases; during the second term, sound, light and heat are taken up, while the third term is devoted to Magnetism and Electricity. This latter course is optional in the Classical, and required in the Philosophical and Scientific courses. In the class-room the text-book and lecture methods are combined, each point being illustrated as far as possible by experiment.

Students who desire, may take an experimental course in the Laboratory, devoting about five hours a week to laboratory work. Such work is taken in addition to the required class-room work, and if a grade of nine or more is attained, the work is credited as an "Honor Study."

Students who have completed the general course in Physics and the experimental course, may take up special lines of investigation under the direction of the Professor.

Descriptive Chemistry is taught by text-book and lectures. The object of the course is to give the student a general knowledge of the most common elements, their sources, use, compounds and behavior towards other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the more simple experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represents the reactions taken place. The Professor will from time to time examine the note-books, and make such suggestions as he thinks helpful.

In order to give those who have not studied Chemistry in their preparatory course a general idea of the aims and scope of the subject, and the methods by which it is studied, a course of experimental lectures is delivered to the Freshmen during the third term.

Analytical Chemistry is open to those only who have completed and been examined in Descriptive Chemistry. In this course, students examine sixty known solid and liquid substances, noting their various reactions. They are then given unknown substances, several in one mixture, which they are required to determine. The course is completed when sixty unknown mixtures have been determined and correctly reported.

Applied Chemistry, covering some topics in Medical Chemistry and Toxicology, Soil Analysis, Water Analysis, Organic Analysis and Analysis of Iron Ores, can be pursued by those who have completed the other two courses.

Quantitative Analysis comprises those determinations which will be most useful to the student of general culture. It also offers to the specialist an opportunity to become acquainted with the methods of separation and manipulation. It is open to those who have taken General and Analytical Chemistry.

Students wishing to follow special lines of investigation, can do so under the direction of the Professor.

Chemical and Physical Society.—A society for chemical research holds meetings weekly to discuss questions in Chemistry and Physics.

IX. ORGANIC SCIENCE.

PROFESSOR GROFF.

Physiology, Hygiene and Sanitary Science.—The great importance of these studies is recognized. Instruction is given by means of text-books and lectures. In the Freshman year students in all the courses of study are required to attend a course of lectures on topics pertaining to personal hygiene. The object of this course is to show to students how they should live during the college course in order to maintain the highest degree of good health. In the Sophomore year there is given to the students of all the courses, a series of lectures on Animal Physiology. It is the aim of these lectures to teach the elements of Anatomy and Physiology in a comparative manner, in the belief that better work can be done, than by confining the attention to the human subject alone. This course is illustrated by means of a French manikin, an excellent skeleton, numerous dry and wet preparations and fresh specimens. There has recently been executed, under the direction of Professor Groff, a large number of charts designed to facilitate the pursuit of these studies. In the Senior year there is delivered a course of lectures on Sanitary Science in which drainage, heating and ventilating, disposal of waste, contagious diseases, sanitary regulations, and other topics which interest modern sanitarians, are discussed. This course is followed by special lectures (if requested by the class) on the relations of the sexes. In the Senior year, a course in comparative anatomy is offered to students, as an elective. This course is open only to those who have taken Animal Physiology.

Botany.—There is no study which, when rightly pursued, can better develop and strengthen the perceptive powers of the mind than Botany. This work is taken up first in the Sophomore year, after the students have studied General Chemistry, thus preparing them to understand the lectures on Plant Physiology. After a few weeks spent in the study of botanical terms and the anatomy of plant tissues, studied from plants and charts, the student commences to analyze plants. At first this is done in the class-room. Each student has the same plant, and also a blank schedule which requires an exhaustive analysis of the root, stem, leaf, flower and fruit. Students read off the characters of the plant from the plant itself, following the order of the schedule. In a few days they are able to do this readily. They may then perform the analyses in their rooms. As an evidence of work done, the analyses are required to be written out in ink, and students cannot pass in the study until one hundred and twenty-five of these are presented. The botanical text-book is used only for its key, by means

of which the name of the plant is found, but the name is, by this method, the last thing obtained; all the visible characters are first studied. This course is supplemented with lectures on the elements of Plant Anatomy and Plant Physiology. To advanced students, additional work in Botany will be offered. Charts, compound microscopes and dried specimens comprise the available equipment for this work. All students are required to take the first course in Botany. Courses in Economic Botany and Horticulture are offered as elective studies in the Junior year, Scientific Course.

Biology.—A course in Biology is offered in the Junior year to students in the department of Science. This course will consist of lectures and laboratory work, and is open to those who have taken Animal Physiology and Botany. Advanced work is offered to students prepared. A small charge will be made for material used.

Zoology.—In this study, instruction by text-book and lecture is combined with laboratory practice. The Laboratory is provided with material and with compound microscopes, sufficient in number, to afford opportunity to each student of devoting several hours a week to practical work. A small charge is made for the use of instruments. This course, and the one in Biology, are recommended to students looking forward to the study of medicine.

An advanced course devoted to original research is offered to students qualified.

Determinative Geology and Mineralogy.—Instruction is given by text-book and lectures, and supplemented by laboratory practice. The course opens with laboratory work in Mineralogy and Lithology. Each student is expected to collect and to label correctly a set of all the minerals and rocks within a radius of several miles of the College. All accessible fossils are carefully studied. Instruction in Field Geology is given in the field. The collection of minerals belonging to the College has been re-arranged with special reference to this work. A course in Blowpipe analysis is offered to advanced students, and is recommended to all who desire a reliable knowledge of minerals. A small charge is made for material consumed.

Animal Histology, Plant Histology and **Animal Embryology** are offered as electives to advanced students.

X. ECONOMICS AND POLITICAL SCIENCE.

I. **Economics** is considered as the science of exchanges, and is followed into its practical applications in manufacturing, banking, national credit, and international commerce with illustrations from well-known facts and current events. It is insisted that any stable system of economy must find its foundation in ethical principles.

There will be held daily recitations from Marshall's "Economics of Industry" and Andrews' "Institutes of Economics," supplemented by lectures, and by debates on the part of the class —PROFESSOR PERRINE.

II. **American Constitutional Law.**—During the spring term the study of American Constitutional Law is open to students of the senior class. The work will consist, not so much in a study of the Constitution itself, as in a study of the Law that has grown out of the Constitution during a century of use.

Cooley's Constitutional Law, or Van Holst's American Constitutional Law, will be made the basis of work in the class-room; while special topics will be assigned for individual study and subsequent discussion in the class-room.

Reference will be made to Hare's American Constitutional Law, Baker's Annotated Constitution of the United States, Cooley's Constitutional Limitations, and "Constitutional History as Seen in American Law."—PROFESSOR HAMBLIN.

III. **Roman Law** may be taken as an elective in the second term of the Senior year. The subject is treated historically. Hadley's Roman Law forms the basis of the work. The text-book is supplemented by lectures and collateral reading.—PROFESSOR ROCKWOOD.

XI. MEDIÆVAL AND MODERN HISTORY.

PROFESSOR LOOMIS.

A somewhat extensive acquaintance with Ancient History is a requirement for admission. The historical course in College is devoted, first, to the History of Mediæval Europe, with a view to ascertaining the principles which have governed its social and political development; secondly, to the History of Modern Europe, with the object of showing how have been evolved the form and character of its states as they now exist. The method of study is a varied one, being by text-book, lectures, and topics assigned for individual research. These courses, extending each as a daily study through one term, are elective for Seniors.

XII. BIBLICAL LITERATURE.

With the school year 1893–94, courses of study will be offered in the Bible in English. The study will be prosecuted from the standpoints of history and literature. The object will be to acquaint the students thoroughly with the contents of the sacred volume.

XIII. MENTAL AND MORAL SCIENCE.

PRESIDENT HARRIS.

The studies in this department are pursued in the Senior year and embrace Psychology, Philosophy, Anthropology, Ethics and Evidences of Christianity.

Daily recitations are had in Psychology during the first term of the Senior year. Baldwin's Psychology is used as a guide to the student in interpreting the facts of his own consciousness. All the definitions are carefully tested by method of investigation and informal expository lectures are given upon the topics discussed in the text-book. Students are required to pursue an extensive course of collateral reading in works which can be obtained in the Library of the College. The course of reading for 1892 will consist of designated portions of Ladd's "Physiological Psychology," Sully's "Outlines of Psychology," and Porter's "Human Intellect." Oral discussions on assigned topics are held, in

which every member of the class is required to take part. Frequent written examinations and theses on assigned subjects, test and deepen the student's knowledge. An honor course in Hamilton's "Lectures on Metaphysics," five hours per week, is offered to the Seniors during the Fall term.

The Seniors, in the second term, pursue the study of Ethics, inquiring into the fundamental principles of the science. Calderwood's "Moral Philosophy" is used as the basis of instruction. The student reads and reports on designated portions of the works of Plato, Aristotle, Kant, Butler, Janet, Wuttke, Strong, and other leading authorities in Ethics and the Philosophy of Religion. Four hours.

A course in the History and Principles of Philosophy is given the Seniors in the second term. This course includes a general acquaintance with the life and teachings of Socrates, Plato, Aristotle, Descartes, Locke, Leibnitz and Kant. Two hours.

An honor course in Lotze's "Grundzüge der Psychologie" is offered for the Winter term, and in Bowen's "History of Modern Philosophy" for the Spring term.

In the third term of the Senior year, a course is given in the Philosophy of Religion, covering those topics that are at present occupying the attention of thoughtful men. Five hours.

SCHEDULE FOR 1893–94.

1. Psychology. Baldwin.
   Reading in Ladd's Physiological Psychology, Porter's Human Intellect, and other authorities.
   Seniors. First term. Five hours.

2. Honor course. Hamilton's Metaphysics.
   Seniors. First term.

3. History of Education. Lectures.
   Juniors. First term. One hour.

4. Ethics. Calderwood. Lectures and Readings.
   Seniors. Second term. Four hours.

5. History of Philosophy.
   Lectures, Theses, and Readings.
   Seniors. Second term. Two hours.

6. Honor course. Grundzüge der Psychologie. Lotze.
   Seniors. Second term.

7. Philosophy of Religion. Flint's Theism, and Lectures.
   Seniors. Third term. Five hours.

8. Honor Course. Bowen's Modern Philosophy.
   Seniors. Third term.

9. Anthropology. Lectures.
   Seniors. Third term. One hour.

LIBRARIES AND APPARATUS.

THE LIBRARIES AND READING-ROOM.

Librarian: PROFESSOR FREEMAN LOOMIS, PH. D.

Assistants: EPHRAIM M. HEIM, WILLIAM B. SHEDDAN.

The College Library.—The general library contains upwards of 12,500 volumes. A reading-room is connected with it. During term-time, both are open forenoon, afternoon and evening of each day, Sundays and holidays excepted, and both are maintained at the expense of the University without extra charge to students. Students are allowed to draw two books at one time and to retain them for two weeks.

The library has now entirely outgrown its former accommodations, but the completion of the new Laboratory building has left vacant the large adjoining room, which is now used for library purposes.

The library is regarded as a working laboratory for all departments of instruction, students being constantly cited to it in class-room work. It is in this way made to answer, not merely the purposes of general culture, but to supplement, in great measure, the monographic treatment of text-book study, and the student is trained under competent guidance to become his own investigator. The resulting practical acquaintance with books and bibliography is certain to prove a valuable part of liberal education. That the demands thus made upon it may be met, it is the purpose to have the library so systematized that all its resources on any given subject shall be at once available. To secure this end, all books will be arranged on the shelves according to the most approved decimal system. A card catalogue will be prepared, making an alphebetical index to the whole collection. This work is already under way and will be rapidly pushed to completion.

The Theta Alpha Society's Library has been deposited in the University library, and contains about 600 volumes.

The Euepian Society's Library has been presented to the University, and contains about 550 volumes.

The Library of the Young Men's Christian Association consists mainly of works relating to Missions and Missionary fields and contains about 300 volumes. This collection has also been presented to the University.

From the income of the Backus Estate, some three hundred volumes have been added by purchase. Gifts to the Library have been received from the

following persons: Rev. John T. Judd, S. Lewis Ziegler, M. D., George W. Schoch, John A. Coles, M. D., Joseph Moore, Jr., and Hon. L. E. Atkinson.

The Reading-Room, in connection with the general library, is maintained at the expense of the University. By purchase or by contribution, its tables are supplied with the current numbers of between seventy and eighty publications, including the leading scientific, literary and philological reviews, journals of art, and papers of the day.

On shelves adjoining the tables of the reading-room are placed encyclopedias, dictionaries, maps, gazetteers, indices and complete sets of such reviews as The North American, Edinburgh, London Quarterly, Popular Science Monthly and Littell's Living Age.

THE MUSEUM.

The College possesses a good collection of illustrative materials in Botany, Mineralogy, Geology and Zoölogy. The specimens are distributed under these classifications and those of Archæology as follows:

Botany	1,350
Mineralogy	3,000
Geology	1,575
Zoölogy	4,450
Archæology	525
Total	10,900

Additions to the Museum will always be thankfully received, especially of objects which can be used in the class-room.

Among these may be mentioned: Zoölogical specimens, especially marine and fresh-water forms of life, insects, skeletons of vertebrated animals, birds and mammals, botanical specimens, crystallized minerals, American and especially Pennsylvania rocks.

Contributions have been received for the Museum, during the past year, from Fred Wagner and John U. Wagner, of Scranton, Nelson Davis, of Seeley, N. J., George Shorkley, of Lewisburg, Captain John A. Owens, Lewisburg, John Sprague, Lewisburg, and E. A. Morley.

THE ART COLLECTION.

The beginning has been made of a collection of paintings, casts, engravings and heliotypes, for the illustration of the Fine Arts. The specimens now in possession of the College number about five hundred, of all kinds, and furnish very considerable aid in illustrating the principles and the history of painting and sculpture.

LABORATORY AND APPARATUS.

The New Chemical and Physical Laboratory affords superior advantages in the study of Chemistry and Physics. The class in Physics has the option of working in the Laboratory. Those electing laboratory work will be required to devote at least five hours a week to this part of the subject. Several different rooms have been especially fitted up to render them suitable for studying, by means of experiments, the subjects of Sound, Light, Heat and Electricity. Most of the apparatus necessary for experimenting in these branches is now provided and others will be added as occasion may demand.

The commodious experiment room for Descriptive Chemistry will accommodate ninety-six students in two sections. Each student is provided with a desk three feet ten inches long, having upon it gas, water, basin with waste, steam and hood for carrying off foul gases. The most frequently used chemicals and pieces of apparatus will be supplied to each student, to be retained by him during the term, and kept under lock and key. The infrequently used materials will be placed on a table to be used in common by all the students.

In the lecture-room, hoods and ventilating flues enable the Professor to perform experiments involving the generation of foul odors without vitiating the air of the room. All modern conveniences are placed upon the lecture table, as gas, steam, oxygen, hydrogen, exhaust air under pressure, etc. A projecting lantern of the most improved type, made by Newton & Co. (London, Eng.), charts and specimens are freely used to illustrate the subject under consideration.

In the Analytical rooms, full opportunity for individual work is afforded, throwing each student upon his own responsibility in order to accomplish the most complete development. Students are encouraged, when sufficiently advanced, to devise tests and methods of separation other than those mentioned in the text-book, and thus to cultivate the habit of original investigation. Last year two superior balances were added to the equipment.

The Physical and Chemical Library has a room on the second floor, and offers facilities for the complete investigation of subjects in Physics and Chemistry. A number of scientific periodicals are taken so that the most recent thought and investigation in any line of work is accessible at any time.

The student is expected to pay for materials used and apparatus broken. To meet this a deposit will be made at the beginning of the term with the Registrar, and the unexpended balance will be returned at the close of the term.

The Laboratories will be open from 8:30 A. M. to 5 P. M. daily, except Saturday, Sunday and legal holidays.

GENERAL COLLEGE ORDERS.

ATTENDANCE.

Only under exceptional circumstances will excuses be granted to leave College during term time. In such cases the examinations on the studies gone over by the class, during a student's absence, will be specially searching, and a high degree of attainment will be exacted. One who is absent during an entire term must almost necessarily lose his standing in his class. The work of the term begins on the day of opening, and recitations are expected at the first hour appointed for the meeting of the classes. The work continues uninterruptedly, with the exception of holidays marked in the Calendar, until the last day of the term.

STANDING.

Each instructor records, in numbers ranging from 0 to 10, the character of the recitations of every student reciting to him, and notes also any delinquency in conduct and attendance. The weekly summary of these markings is recorded in a permanent book, and constitutes the basis for determining the standing of the student during his connection with the Institution. Unexcused absences from recitations are counted as zeros in making up the weekly averages. At the close of each term an average of these marks is made out, and a report of the scholarship, attendance and conduct of each student is transmitted to his parent or guardian by the President. No student is advanced from one class to another whose average in any study is less than seven.

Conditioned students are not recommended to the Board of Trustees for promotion, and their names in the Annual Catalogue appear with those of the class to which the study in question belongs. Students conditioned on entrance must discharge such conditions within the first year thereafter.

Appointments in the Graduating Class are made according to the aggregate standing of each member during his entire course. But in assigning these parts, the Faculty takes into account the deportment of the student, as well as marks for recitations. The minimum average for an Oration of the First Class is fixed at 9, and for an Oration of the Second Class, at 8.

EXAMINATIONS.

The dates of the examinations are given in the Calendar. In case a student fails to be present at the examination of his class, for any justifiable reason, his examination will be held at such time as the Faculty may appoint.

PUBLIC WORSHIP.

The College duties of each day are opened with religious services in Bucknell Hall, which all the students are required to attend.

Attendance upon public worship in some Church in town on Sunday morning is required. Students must attend the religious services held on Thanksgiving Day.

On the Day of Prayer for Colleges, religious services are held in the forenoon, and a sermon is preached by the President, or by some one at his request. All the students are required to attend. In the afternoon a prayer-meeting is held in Bucknell Hall, and in the evening another, in connection with one of the churches in town, attendance upon which is urged, though not required.

There is maintained by the students a prayer meeting on Tuesday evenings, attendance on which is optional.

VOLUNTARY SOCIETIES.

Euepia ; Theta Alpha.—These are the two Literary Societies in College They have meetings on Friday evening of each week for Orations, Essays and Debates. Each society has a convenient Hall, and, by an arrangement of the Faculty, will always have a nearly equal number of members.

The Young Men's Christian Association comprises students from the College. It receives religious periodicals and corresponds with kindred Societies. A new Hall has recently been appropriated to the Society, and has been suitably furnished for religious meetings.

The Students' Publishing Association is an organization which has in charge the issuing of the "University Mirror." This periodical of some twenty-four or more quarto pages appears monthly, during the collegiate year.

GOVERNMENT.

It is expected that all who enter the courses of study in the College do so for the purpose of acquiring an education, not only of the intellect, but also of character. The Laws of the College, enacted by the Board of Trustees, are as few and simple as the proper regulation of a community of young men will permit. These are printed, and a copy is placed in the hands of every student at the beginning of each year. These Laws must be observed, not only in their letter, but in their spirit. The atmosphere of the Institution is not that of arbitrary restraint, but of reasonable conformity to reasonable laws. The College does not wish to place its stamp or bestow its honors upon any one who is not willing to deport himself as a gentleman. Each student is distinctly placed upon his manhood, and if he abuses his privileges, after reasonable caution, he must withdraw from the institution.

PRESIDENT'S OFFICE HOURS.

The President of the University is in his office, in the Main College building, every Tuesday from 9:30 A. M. to 12 noon, to confer with students who may desire advice or assistance. Students are encouraged to communicate frankly with the President upon any subject in which he may be of help to them.

HEALTH AND PHYSICAL CULTURE.

THE TUSTIN GYMNASIUM.

HARVEY FETTERHOFF SMITH, WILLIAM RAE HARPER, DIRECTORS.

The Tustin Gymnasium has been provided for the physical training and development of male students. Young women have opportunity for physical education in the Gymnasium of the Institute. These are now provided with the apparatus usually found in a well furnished gymnasium. The Directors of the Gymnasium examine every student, taking and recording in a book his physical measurements, and prescribe such exercises as may be required is physical development. Regular exercise in the gymnasium is required of all students during the winter term.

The Athletic Association of the College has been formed to encourage and regulate athletic sports. Considerable liberty is permitted to the Association in carrying out its purpose. The Association is not allowed, however, to arrange match games with other similar bodies without first having secured the consent of the Faculty.

AIDS AND HONORS.

PRIZES.

THE FRESHMAN DECLAMATION PRIZE

A prize is awarded to the member of the Freshman Class who shall excel in declamation at the Annual Contest of the Freshman Class.

The prize was awarded in 1892 to Bromley Smith.

THE PRIZE OF THE CLASS OF '71.

This prize, established by the Class of 1871, consists of the sum of twelve dollars, to be awarded to the student of the Freshman Class who shall prove himself best prepared for College in the two branches, Latin and Mathematics, and who shall have received his preparatory training in Bucknell Academy.

The prize for 1892 was awarded to Alfred Hayes, Jr.

THE WILLIAMS PRIZE.

The Rev. Charles L. Williams, of Upland, Pa., has established an annual prize to be given that member of the Freshman Class who shall, on or before the first day of June in each year, present the best essay upon a topic to be selected by the Professor of Rhetoric. The Committee of Award will consist of the Professor of Rhetoric and two others to be designated by the Faculty.

The topic for the current year is "The Life of Lord Clive as found in Ma-Caulay's Essay on Lord Clive."

The prize was awarded for the year 1892 to Ezra Allen.

THE SOPHOMORE DECLAMATION PRIZE.

A prize will be awarded in 1893 to the member of the Sophomore Class who shall excel in declamation at the Annual Contest of the Sophomore Class.

THE SOPHOMORE ESSAY PRIZE.

A prize is awarded to that member of the Sophomore Class who shall write the best English composition on an assigned subject. The Committee of award consists of the President, the Professor of Rhetoric and one other chosen by themselves.

The subject for the year 1893 is "The Melancholy of Jacques in 'As you like it.'" The compositions are limited to 2,000 words, and must be presented to the Committee on or before the first day of June.

The prize was awarded in 1892 to Thomas Stradling Fretz.

THE REGISTRAR'S PRIZE.

The Registrar of the University offers a prize to be awarded to that member of the Junior Class who shall pronounce the best oration at the Junior Exhibition in Oratory.

The Junior oratorical prize was awarded last Commencement to Ephraim M. Heim.

THE HOLLOPETER PRIZE.

William C. Hollopeter, M. D., class of 1874, has established an annual prize for excellence in Chemistry, to be awarded to that student at graduation who shall have done the best work in Chemistry, regard being had both to the amount and quality of the work.

THE HERBERT TUSTIN PRIZES.

In memory of his deceased son, the late Professor F. W. Tustin, Ph.D., of the Class of 1856, paid to the Trustees of the University the sum of five hundred dollars, "as the foundation of the HERBERT TUSTIN PRIZE FUND, the interest of which is to be forever paid annually as two prizes, in the proportion of fifteen dollars for the First Prize, and of ten dollars for the Second Prize, to the two students of the Senior Class who shall have attained the highest and the second highest standing in Psychology and Ethics (under such regulations for the pursuit of these studies as the Faculty of the College shall prescribe from time to time), and whose conduct for the last two years of their course in College shall have been without exception."

The first prize was awarded in 1892, to Llewellyn Phillips, and the second to Andrew Robert Elmer Wyant.

THE CHAPLAIN J. J. KANE PRIZE.

The Rev. James J. Kane, Chaplain in the United States Navy, and a graduate of the Theological Department of this University of the Class of 1867, has established a Prize Fund of one thousand dollars, the interest of which is to be given annually to that member of the graduating class who delivers the best oration on Commencement Day.

The prize was awarded last Commencement to Llewellyn Phillips.

SCHOLARSHIPS.

I. THE BUCKNELL SCHOLARSHIPS.

The William Bucknell Scholarships, twenty in number and of one thousand dollars each, were established for the purpose of aiding worthy young men in securing an education which will increase their usefulness in the world. The income of these scholarships is to be paid annually to twenty young men, in accordance with the rules which will be made known upon application to the Committee of Examination, consisting of the President of the University, H. S. Hopper, Esq., and Professor F. E. Rockwood.

II. SCHOLARSHIPS FOR MINISTERS' CHILDREN.

Scholarships upon the general foundation have been established for the children of ministers of the Gospel, of all denominations, in active service.

III. THE LIVINGSTON SCHOLARSHIPS.

Established from a legacy of M. B. Livingston, twenty-two in number, are available for students for the ministry.

IV. ANNUAL SCHOLARSHIPS.

A number of persons have established annual scholarships for the aid of young men or women attending College. Information concerning ministerial and annual scholarships can be obtained from the President of the University.

HONOR EXAMINATIONS.

In order to promote special scholarship in the several studies taught in the College, the following provision has been made :

1. Any student who has attained an aggregate average of nine in all the studies of the previous term, may take special work in any department of the College, under the direction of the Professor of that department.

2. Such work must be assigned by the Professor, and the method of study prescribed by him.

3. If the student shall attain an aggregate average of nine in all the studies of the current term, and pass a satisfactory examination in the voluntary study before a committee appointed by the Faculty, the work shall be credited to him in the Annual catalogue of the College.

4. But one such study shall be pursued by any one student during any one term.

5. The Professor under whom the student is working shall have the privilege of requiring a partial examination on the work done at any time during the term, and there may be regular recitations, at the Professor's option.

6. The amount and quality of this extra work shall be taken into the account in awarding honors at graduation.

The following Honor Examinations have been sustained during the past year :

With Professor Groff : Mary L. Bartol, in Botany.

With Professor Owens : Ephraim M. Heim, in Experimental Physics ; Harvey Learn Fassett, Alonzo Corodyn Lathrop, Franklin Reese Strayer, Wilson Mettler Vastine, Jessie June Wheeler and Charles Wesley Williams, in Laboratory Mechanics.

With Professor Perrine : Elton Smith Corson and John Urban Wagner, in The Ormulum and the Ancren Riwle ; Frederic Otto Schub in Bleibtreue's Geschichte der Englischen Literatur ; Raymond John Davis, Edwin Maxey, Edwin Morgan, William Boyd Sheddan, and Bromley Smith in Milton's "Paradise Lost ;" Mary Belle Harris, in Shakespeare.

With Professor Rockwood : Mary Belle Harris, in Cicero *de Officiis ;* Grace Guthrie, Edward Gridley Kendall, and James Malcolm Kendall, in Ovid.

EXPENSES.

The Study Rooms are so arranged that two students occupy the same study. The Dormitories are intended to accommodate only one person, so that each student has his own private sleeping room. These are furnished with new spring bedsteads. The student must supply himself with all other furniture. Students are responsible for damage to their rooms, whether it be done when they are present in the room or absent from it.

The College charges amount to eighty dollars per annum, and are apportioned as follows:

	Per Annum.
Tuition	$50 00
Room-rent, Fuel and Incidentals	30 00
	$80 00

These charges must be paid in advance at the beginning of each term.

No student is entitled to his place in his class until he has made settlement with the Registrar.

A slight additional charge is made for rooms cared for by the Institution.

No deduction will be made except in case of protracted illness.

If a student occupy a study by himself, the charges for room-rent and private fuel will be doubled. The assignments are for one year, and are made the first Monday morning in June, immediately after the devotional exercises in Bucknell Hall. Students from a distance will save inconvenience by applying to the Registrar for a room before the term opens.

Free scholarships, covering tuition, are also provided in all the Departments of the University for children of Ministers of the Gospel, *in actual service.*

In the laboratories students pay for chemicals used and for apparatus broken or damaged. In the Chemical Laboratory this will amount to about $12.00 for Analytical and $3.25 for General Chemistry, depending upon the care of the student. Before entering upon the experimental courses students must deposit with the Registrar security for materials used.

The Expenses for Music and Printing for Examinations and Anniversary occasions are paid for by the classes for which such expenses are incurred. Graduation fee and Diploma, five dollars. Degree of Master of Arts and Diploma, five dollars.

Many students board in clubs at a cost of from $2.00 to $2.50 per week. Excellent boarding can be obtained in private families at $3.00 or $4.00 per week, or at the table of the Bucknell Academy at $3.00 per week. Washing is done at 25 cents per week. No boarding is allowed in the College Buildings. It will be a matter of economy to bring some articles of furniture, especially bedding and carpets, from home. The dimensions of the study rooms are twelve by twelve feet; of the dormitories, twelve feet by six feet; of the bedsteads, seventy-five inches by thirty inches.

For information respecting the College, address the President of the University, John H. Harris, Ph, D., LL. D.

FORTY-SECOND

ANNUAL COMMENCEMENT.

Wednesday, June 22, 1892.

HONORS AT GRADUATION.

ORATIONS OF THE FIRST CLASS.

SUMMA CUM LAUDE:

LLEWELLYN PHILLIPS. ANDREW ROBERT ELMER WYANT.

MAGNA CUM LAUDE:

HOMER DOWLIN, ELKANAH HULLEY,
WALTER BODINE PIMM, CHARLES GRANT SHAFFER,
GEORGE SHORKLEY.

CUM LAUDE:

ISAAC FRANKLIN BODLE, ANNIE CATHERINE CARLISLE,
ELTON SMITH CORSON, CHARLES KOONCE,
H. OPHELIA STAUFFT, GEORGE WASHINGTON WAGENSELLER.

ORATIONS OF THE SECOND CLASS.

CHARLES WILLIAM ALLEN, CHARLES EDWARD FOLMER,
ROBERT JANISCH HOLMES, WARREN LESLIE KAUFFMAN,
WILLARD ARTHUR LANING, JAMES MCLEAN PATERSON,
JOHN URBAN WAGNER.

DEGREES CONFERRED.

I. IN COURSE.

BACHELOR OF ARTS.

CHARLES WILLIAM ALLEN, ANNIE CATHERINE CARLISLE,
ELTON SMITH CORSON, ELKANAH HULLEY,
CHARLES KOONCE, WILLARD ARTHUR LANING,
JAMES MCLEAN PATERSON, LLEWELLYN PHILLIPS,
WALTER BODINE PIMM, CHARLES GRANT SHAFFER,
H. OPHELIA STAUFFT, GEORGE WASHINGTON WAGENSELLER,
ANDREW ROBERT ELMER WYANT.

BACHELOR OF PHILOSOPHY.

ISAAC FRANKLIN BODLE, HOMER DOWLIN,
ROBERT JANISCH HOLMES. WARREN LESLIE KAUFFMAN,
GEORGE SHORKLEY, JOHN URBAN WAGNER.

BACHELOR OF SCIENCE.

CHARLES EDWARD FOLMER.

MASTER OF ARTS.

JOSEPH MAXWELL ASHTON, THOMAS WINFIELD BOOTH,
OLIVER BLACKBURN FINN, WILLIAM CHARLES LEINBACH,
THOMAS QUINTIN, CHARLES ABBOT WALKER,
JOSEPH MEIXELL WOLFE, RAYMOND WEST,
WILLIAM EUGENE ZELLER, SOLOMON FRANKLIN FORGEUS.

II. HONORARY.

DOCTOR OF DIVINITY.

REV. JOSEPH CHANDLER BUCHANAN, A. M.,
REV. JOHN SEXTON JAMES, A. M.

DOCTOR OF PHILOSOPHY.

PROF. JAMES HENRY MORGAN, A. M.,
REV. JOHN BALLENTINE, A. M.

DOCTOR OF MUSIC.

ELYSEE AVIRAGNET, A. M.

THE ACADEMY.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D.,
PRESIDENT OF THE UNIVERSITY.

WILLIAM EMMET MARTIN, A. M., PRINCIPAL,
HISTORY, LATIN AND RHETORIC.

ALBERT BURNS STEWART, A. M.,
LATIN AND MATHEMATICS.

GEORGE EDWARD FISHER, PH. B.,
ENGLISH AND SCIENCE.

LLEWELLYN PHILLIPS, A. B.,
GREEK AND ELOCUTION.

ISAAC FRANKLIN BODLE, PH. B.,
ARITHMETIC.

MRS. ANNIE M. BLACK,
MATRON.

WILLIAM CHRISTIAN GRETZINGER, PH. B.,
REGISTRAR OF THE UNIVERSITY.

STUDENTS.

THE FOURTH FORM.

CLASSICAL.

NAME.	RESIDENCE.	ROOM.
ELWOOD HERBERT DUTTON,	*West Chester.*	No. 22 East Hall.
VINCENT BARRETT FISK,	*Erie.*	No. 12, Main Hall.
HOWARD LANGLEY GUSS,	*Mifflinburg.*	No. 22, East Wing.
FRANK HOLLINSHEAD,	*Philadelphia.*	No. 22, East Wing.
EDWARD CHARLES KUNKLE,	*Newberry.*	No. 14, West Wing.
ROSWELL CHENEY MCCREA,	*Norristown.*	No. 9, Main Hall.
HERBERT BALDWIN MOYER,	*Norristown.*	No. 20, West Wing.
STEPHEN GIDEON PALMER,	*Medway, N. Y.*	No. 9, Main Hall.
DANIEL WEBSTER PHILLIPS,	*Scranton.*	No. 24½, East Wing.
WILLIAM HAMILTON RODGERS,	*Allentown.*	No. 22, East Hall.
JOHN CHRISTIAN STOCK,	*Philadelphia.*	No. 11, West Wing.
CARL SUMMERBELL,	*Lewisburg.*	Rev. J. J. Summerbell.
JOHN MCCALMONT WILSON,	*Franklin.*	Mrs. W. R. Funk.

SCIENTIFIC.

NAME.	RESIDENCE.	ROOM.
William Frederick Eichholtz,	*Sunbury.*	No. 11, East Hall.
Charles Boyd Galloway,	*Moore's.*	No. 15, East Hall.
John Moore Gundy,	*Lewisburg.*	Mr. John A. Gundy.
William Franklin Johnson,	*Philadelphia.*	No. 7, Main Hall.
Ralph Robert Keller,	*Bloomsburg.*	No. 18, East Hall.
William Hammond Parker,	*Allentown.*	No. 8, Main Hall.
Christian Clinton Sandels,	*Greensburg.*	No. 12, East Hall.
Harry Thomas Sprague,	*Lewisburg.*	Mr. John Sprague.
Fred Ward Wagner,	*Bradford.*	No. 12, East Hall.
Edward Whitman,	*Lewisburg.*	Mr. F. O. Whitman.

THE THIRD FORM.

CLASSICAL.

NAME.	RESIDENCE.	ROOM.
John Truman Anderson,	*Lewisburg.*	Home.
George Livingston Bayard,	*Plymouth Meeting.*	No, 21, East Hall.
Elmer Ellsworth Conrath,	*Cookport.*	No. 11, Main Hall.
Edward Flint,	*Philadelphia.*	No. 5, Main Hall.
Andrew Albright Leiser, Jr.,	*Lewisburg.*	A. A. Leiser, Esq.

Charles Arthur Lindemann,	*Philadelphia.*	No. 10, Main Hall.
John Elmer Saul,	*Uwchlan.*	No. 5, Main Hall.
Charles Richard Shelhart,	*Danville.*	No. 11, East Hall.
Robert Green Slifer,	*Lewisburg.*	Mrs. C. V. Slifer.
Joseph Thompson Snyder,	*Lewisburg.*	Miss Kate J. Thompson.
John Walls,	*Lewisburg.*	Mr. W. C. Walls.
Hugh Cartwright Williams,	*Ashland.*	No. 16, West Wing.

SCIENTIFIC.

NAME.	RESIDENCE.	ROOM.
Blakeley Graham,	*Chester.*	No. 9, East Hall.
Thomas Graham,	*Chester.*	No. 9, East Hall.
Frank Homer Greene,	*Huntingdon.*	No. 8. Main Hall.
William Dugmore Jones,	*Centralia.*	No. 11, Main Hall.
Eugene Eyer Kerstetter,	*Lewisburg.*	Mr. C. W. Kerstetter.
Harvey Bailey Marsh,	*La Plume.*	President Harris.
James Brown Martin,	*Lewisburg.*	Prin. W. E. Martin.
Thomas Howard Pardoe,	*Northumberland.*	Mr. Joseph Pardoe.
Walter James Siner,	*Philadelphia.*	No. 17, East Hall.
Charles Haas Swenk,	*Sunbury.*	Mr. Jacob A. Swenk,

THE SECOND FORM.

NAME.	RESIDENCE.	ROOM.
Wilbur Fisk Ash,	*Northumberland.*	Rev. H. M. Ash.
Charles Baldry Austin,	*Lewisburg.*	Rev. C. B. Austin.
Edward Bell,	*Lewisburg.*	Mr. Edward Bell.
Andrew Clarence Bennett,	*Lewisburg.*	Home.
Bryant Evans Bower,	*Middleburg.*	No. 6, Main Hall.
Abbot Green Bucher,	*Lewisburg.*	J. C. Bucher, Esq.
Samuel Joseph Cleeland,	*Philadelphia.*	No. 4, Main Hall.
Thomas Jones Davis,	*Scranton.*	No. 13, West Wing.
David Hayes Elliott,	*Hartleton.*	No. 20, East Hall.
James Jarrett Hobbins,	*Erie.*	No. 7, Main Hall.
Ralph Samuel Koser,	*Williamsport.*	No. 13, East Hall.
Charles Willard Kramer,	*Winfield.*	Mr. Elias Kramer.
William Strawbridge McCreight,	*Lewisburg.*	Mr. J. S. McCreight.
Charles Paul Meeker,	*Philadelphia.*	No. 15½, West Wing.
John William Meixell,	*Lewisburg.*	Home.
Oliver Preston Miller,	*Lochiel.*	Mr. S. F. Miller.
Frank Garf Perrin,	*Edgemont.*	No. 2, West Wing.
Clarence Proctor Reid,	*Milton.*	No. 23 East Hall.
Hugh Sheller Ruckman,	*Turbotville.*	Mrs. Elizabeth Sheller.
August Shuhart,	*Philadelphia.*	No. 10, Main Hall.

Cloyd Nillis Steininger,	*Lewisburg.*	Home.
Robert Van Valzah,	*Lewisburg.*	J. W. Van Valzah, Esq.
William Myles Warren,	*Germantown.*	No. 4, Main Hall.

THE FIRST FORM.

NAME.	RESIDENCE.	ROOM.
William Pursel Angle,	*Danville.*	No. 11, Main Hall.
Norman App Gutelius,	*Lewisburg.*	Mr. H. E. Gutelius.
Robert Hood,	*Lewisburg.*	Mr. C. F. Hood.
Samuel Walter Lee,	*Lewisburg.*	Rev. James R. Lee.
Henry Frost Scatchard,	*Norristown.*	No. 19, East Hall.
William Hiram Thomas,	*Lewisburg.*	Mr. W. P. Thomas.
Albert Hudson Verity,	*Montandon.*	Rev. Richard Brooks.

SUMMARY.

The Fourth Form, Classical	13	
Scientific	10	23
The Third Form, Classical	12	
Scientific	10	22
The Second Form		23
The First Form		7
Total in Academy		75
In other Departments		276
Total in all Departments		351

COURSES OF STUDY.

The Academy is designed to fit pupils for College, for Teaching, or for Business. It affords two Courses of Study :

I. **The Classical Preparatory Course** extends through four years and is arranged to meet the requirements for admission to College. The study of Latin begins with the Second Form and continues for three years. The study of Greek begins with the Third Form and continues for two years. Notwithstanding the time given to these important branches of study, fully one-half of the time of the entire course is devoted to English, Historical, Mathematical, and Scientific subjects.

II. **The Scientific Preparatory Course** extends through four years and furnishes adequate preparation for either division of the Philosophical Course in College. The First and Second Forms of the Classical and the Scientific Courses are identical. In the Third and Fourth Forms, the student preparing for the Latin Division substitutes Historical and Scientific subjects for the Greek of the Classical course; while the student preparing for the Greek Division substitutes the Greek of the Third and Fourth Forms for the Latin and includes the Historical and Scientific subjects.

Students may enter that Form which they are prepared to pursue with profit.

Students who are able to accomplish more work in the allotted time than is required by the Classical Course, are encouraged to add the special studies of the Scientific Course. They may also pursue extra honor work in the Classics by reading, under an instructor's direction, Cæsar's Civil War, Cicero's Letters, or Sallust, and Books IV, V, VI of the Iliad, or the Hellenica.

Students who are preparing for the English Scientific Course in College can elect the necessary studies from the regular Curricula of the Academy.

Students who do not intend to enter College, but who desire a comprehensive academic training will find the Scientific Preparatory Course, with Latin, well adapted to prepare them for teaching or for business.

Transient students may elect such studies as they are qualified to pursue from the studies in actual progress in any given term.

CURRICULA.

I. CLASSICAL PREPARATORY COURSE.

FIRST FORM.

I. TERM—Arithmetic,	Wentworth,
English Grammar,	Outlines and Exercises,
Geography,	Appleton.
II. TERM—Arithmetic,	Wentworth,
English Grammar,	Outlines and Exercises,
History of the United States,	Barnes.
III. TERM—Arithmetic,	Wentworth,
English Grammar,	Whitney's Essentials,
History of the United States,	Barnes.

SECOND FORM.

I. TERM—Higher Arithmetic,	Olney's Science,
Latin—Lessons,	Tetlow,
Grammar,	Allen and Greenough,
Physical Geography,	Appleton.
II. TERM—Book-keeping,	Bryant,
Latin—Lessons,	Tetlow,
Grammar,	Allen and Greenough,
History of Greece,	Myers.
III. TERM—Rhetoric,	Hill's Elements,
Cæsar's Commentaries,	Harper and Tolman,
History of Rome,	Myers,
Elementary Botany,	Gray.

THIRD FORM.

I. TERM—Algebra,	Sheldon's Elements,
Cæsar's Commentaries,	Harper and Tolman,
Greek—Lessons,	White,
Grammar,	Goodwin.
II. TERM—Algebra,	Sheldon,
Vergil's Æneid,	Harper and Miller,
Greek—Lessons,	White,
Grammar,	Goodwin.

III. Term—Natural Philosophy,	Sharpless and Philips,
Vergil's Æneid,	Harper and Miller,
Xenophon's Anabasis,	Kelsey.

Fourth Form.

I. Term—Algebra, Quadratics,	Sheldon,
Latin—Vergil's Æneid,	Harper and Miller,
Prosody,	Harper and Miller,
Xenophon's Anabasis,	Kelsey.
II. Term—Plane Geometry,	Wentworth,
Latin—Cicero's Orations,	Allen and Greenough,
Prose Composition,	Daniell,
Homer's Iliad,	Seymour.
III. Term—Plane Geometry,	Wentworth,
Cicero's Orations,	Allen and Greenongh,
Greek—Homer's Iliad,	Seymour,
Prose Composition,	Woodruff.

II. SCIENTIFIC PREPARATORY COURSE.

First Form.

I. Term—Arithmetic,	Wentworth,
English Grammar,	Outlines and Exercises,
Geography,	Appleton.
II. Term—Arithmetic,	Wentworth,
English Grammar,	Whitney's Essentials,
History of the United States,	Barnes.
III. Term—Arithmetic,	Wentworth,
English Grammar,	Outlines and Exercises,
History of the United States,	Barnes.

Second Form.

I. Term.—Higher Arithmetic,	Olney's Science,
Latin—Lessons,	Tetlow,
Grammar,	Allen and Greenough,
Physical Geography,	Appleton.
II. Term—Book-keeping,	Bryant,
Latin—Lessons,	Tetlow,
Grammar,	Allen and Greenough,
History of Greece,	Myers.
III. Term—Rhetoric.	Hill's Elements,
Cæsar's Commentaries,	Harper and Tolman,
History of Rome,	Myers,
Elementary Botany,	Gray.

THIRD FORM.

I. TERM—Algebra,	Sheldon's Elements,
Cæsar's Commentaries,	Harper and Tolman,
History of England,	Guest.
II. TERM—Algebra,	Sheldon,
Vergil's Æneid,	Harper and Miller,
Astronomy,	Sharpless and Philips.
III. TERM—Natural Philosophy,	Sharpless and Philips,
Vergil's Æneid,	Harper and Miller,
Civil Government,	Cocker.

FOURTH FORM.

I. TERM—Algebra, Quadratics,	Sheldon,
Latin—Vergil's Æneid,	Harper and Miller,
Prosody,	Harper and Miller,
English Literature,	Outlines.
II. TERM—Plane Geometry,	Wentworth,
Latin—Cicero's Orations,	Allen and Greenough,
Prose Composition,	Daniell,
Physiology,	Walker.
III. TERM—Plane Geometry,	Wentworth,
Cicero's Orations,	Allen and Greenough,
Geology,	Le Conte.

METHODS OF INSTRUCTION.

The Preparatory Curriculum naturally falls into six principal lines of study, viz.: English, Latin, Greek, History, Mathematics, and Natural Science. These combine, in due proportion, the cultural, the disciplinary and the practical elements of intermediate education. The two great divisions of modern study, the Classical and the Scientific, are accorded adequate and appropriate preparation. The subjects, facilities and methods of the various departments are explained below.

I. THE ENGLISH LANGUAGE.

A thorough grounding in the principles of English Grammar is indispensable to the student's progress in the subsequent language studies. The continuous application of this knowledge in Composition, and the constant comparison with the forms and idioms of the Ancient Languages, prepare the way for the study of elementary Rhetoric, and the appreciative reading of English and American Literature. The aim is the clear, elegant and forcible use of the mother tongue as the chief instrument of expression.

II. THE LATIN LANGUAGE.

The Inductive Method is used in the elementary instruction. The student investigates the formation of the language. The abstract rules of Syntax are learned from the analysis and synthesis of sentences. Careful drill is given in the declensions and conjugations, the use of the moods and the sequence of tenses, in the ready reading of the Latin text, in sight reading and in accurate translation into idiomatic English. Attention is given to the imporant personal, historical and political elements in the writings of Cæsar and Cicero. In Vergil, the student is introduced to the poetry, legend, religion, philosophy and art of Rome. He is taught to investigate the allegorical, archæological and mythical allusions of the Æneid, and to appreciate it as the mirror of the life of the Empire. Latin prosody is taught first from the text, and then from the grammar.

III. THE GREEK LANGUAGE.

The first half year of the Third Form is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophon's Anabasis. During the last half year, special attention is given to the inflection and syntax of nouns, pronouns and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a

special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term Xenophon is reviewed, that the student may refresh his knowledge of Attic Greek, and may not find the transition to College needlessly difficult. Almost daily drill is given in turning into Greek, sentences based on the text of Xenophon.

IV. HISTORY.

The course in History includes a survey of the History of the United States, England, Greece and Rome. The aim is not so much to fill the student's mind with a collection of dates, events and personages, as to acquaint him with the life, the genius, the institutions and the achievements of the respective peoples, and their part in the wider history of humanity. Students are encouraged to cultivate the historical imagination; to compare race characteristics, arts and religions; and to appreciate the noble ideals, the heroic struggles and sacrifices, that have imparted imperishable worth to human institutions.

Civil Government is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State and local government; the political history of the people; the interpretation and construction of the Constitution, are clearly presented and discussed.

V. MATHEMATICS.

Arithmetic.—To students who are fitting themselves for business, a course is given in practical business Arithmetic, involving all the ordinary problems and practices in the business world. To those who are preparing for College or for teaching, instruction is given in the theory and science of Arithmetic. Pupils are expected to master the principles and then to formulate their own rules.

Algebra.—The course extends through one period daily for one year, and includes a thorough knowledge of the fundamental principles, Factoring, Divisors and Mutiples, Fractions, Equations, Involution, Evolution, Theory of Exponents, Radicals and Quadratic Equations. Daily black-board work serves to apply the principles taught. The student is required both to know the methods of the solution of problems and also to explain the operation to the class.

Plane Geometry.—The instruction consists of daily recitations for two terms on the Theorems and Problems given in the text-book, with original demonstration of the same Propositions by the students, from hints and figures given in the class-room. Besides this, considerable attention is given to the solution of original Propositions, and the application of principles thus learned to the solution of numerical problems.

Book-Keeping.—A practical introduction to the science of accounts is secured in the term devoted to mastering the principles of Double Entry Book-Keeping.

Careful attention is given to business forms, to the usages of Banks, and to the elements of Commercial Law. The subject may be pursued in its more extended and intricate applications by a second term's work, open to properly qualified students.

VI. SCIENCE.

Physical Geography lays a broad foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmosphere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. The text is illuminated by drawings, photographs, colored and relief maps, and specimens from the Museum.

Botany is taught by text book, field exercise, plant analysis and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

Physiology.—Every effort is made to impart clear ideas of the structure, parts and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, the effects of stimulants and narcotics. Suggestions are constantly made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. Charts, manikin and preparations are used in class.

Natural Philosophy.—The student is thoroughly grounded in the elements of mechanics and physics. The apparatus of the College laboratory is available for use. The historical beginnings of each subject, and subsequent development, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the mathematics of the higher course in College.

Astronomy.—Descriptive Astronomy discusses the earth's relation to the solar system, the masses, motions and orbits of each member of it; the causes and consequences of at least five motions of the earth; general boundaries of the constellations of the Zodiac and Northern heavens; the accepted theories of comets, meteors and nebulæ. Charts, star maps, globes, and other apparatus are used, and the student is afforded privileges of observation in the College observatory.

Geology.—The student here masters the elements of lithological, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work, and that have worked to produce change are considered.

VII. ORATORY.

Class Exercises.—Members of the Fourth Form prepare and deliver two original orations each term. All other students have regular exercises in Composition and Declamation throughout the year. These exercises are held in Bucknell Hall on Saturday mornings, before the assembled faculties and students of the Institute and the Academy. Visitors are cordially welcomed to these exercises.

In addition to the private rehearsals for the work above indicated, all students receive weekly instruction in Elocution. The course includes careful drill in the Elementary Sounds, in Articulation, and in Expression; Analytical Reading, including the Bible and Hymns, and the study of Shakespeare.

VIII. SPECIAL BRANCHES.

Bible Study.—The study of the Bible is pursued as a regular weekly recitation throughout the Second, Third and Fourth Forms, in both courses of study. The Second Form have recitations covering the sacred narrative from Genesis to Judges; the recitations of the Third Form complete the Old Testament; those of the Fourth Form complete the New Testament.

Literature Study.—The reading and study of the masterpieces of English and American Literature is maintained in the Second, Third and Fourth Forms by weekly conferences.

The Study of Music may be pursued by Academic students under the instruction of Professor E. Aviragnet and his Assistants, of the School of Music.

Drawing.—All students of the Academy may receive throughout the year weekly lessons in Free-hand Drawing. Special individual instruction in Drawing is afforded at twenty-four dollars per annum.

IX. HEALTH AND PHYSICAL CULTURE.

The Tustin Gymnasium affords opportunity for physical exercise in the winter and during inclement weather at other seasons. The Directors of the Gymnasium give regular class exercises to the students of the Academy. Attendance upon physical training in the Gymnasium is obligatory during the Winter Term.

The Athletic Association of the Academy has been formed to encourage and regulate athletic sports. The Association is allowed to arrange match games with other similar bodies by first securing the consent of the Principal.

PUBLIC EXHIBITIONS.

THIRD FORM.

The Public Exhibition of the Third Form in Declamation will take place on Saturday evening, April 29, 1893, in Commencement Hall.

FOURTH FORM.

The closing exercises of the Academy will be the Public Exhibition of the Fourth Form in Oratory, on Tuesday morning, June 20, 1893.

GENERAL INFORMATION.

ADVANTAGES.

To the student seeking preparation for College, the Academy offers unusual inducements. Its proximity to the College secures to him an atmosphere of study, acquaintance with the guides and companions of his future course, and the benefit of numerous literary exercises to be found only in College towns. He has access to the College Library and Reading-Room. The Academy is designed to fit its pupils thoroughly for College, for Business or for teaching. It aims to lay broad and solid foundations for all subsequent scholarly culture, and for the successful conduct of every-day affairs.

GOVERNMENT.

Students are encouraged to regard self-government as the only true government. It will be the constant endeavor to secure uprightness of character, gentlemanly deportment, and diligent application to work, by kind treatment, and high standards in conduct and study. The Academy cannot knowingly accept or retain incorrigibles.

I. ADMINISTRATION.

1. The general control of the Academy is vested in the President of the University.

2. The government of the Academy, subject to such control, rests with the Principal of the Academy.

3. The government of each Hall is vested in the Professor in charge, who resides in the Hall and enforces such regulations as are herein enacted for the regulation of the Hours of Study, Academy Property, Hygienic Precautions and General Deportment, and such other prudential regulations as may be ordered by the joint concurrence of the President of the University and the Principal of the Academy.

4. Each Professor will have charge of his class with reference to attendance upon recitations. In case any student is absent twice in any one term, without good excuse, from recitations, or from his room in the evening after the hour of seven, it shall be the duty of the Principal of the Academy to give information of the fact to the parent or guardian of the pupil so offending.

II. VIOLATION OF RULES.

1. Any officer of the Institution becoming cognizant of violation of regulations by any pupil shall report the same to the Principal of the Academy, who shall make a record of the fact in a book provided for the purpose. Any second violation by the same pupil shall also be reported to the President of

the University ; and if, in the judgment of the President of the University, and the Principal of the Academy, the offence be of sufficient gravity, the parent or guardian of the offending pupil shall be notified.

2. Violations of these and other prudential regulations shall be punished by private reprimand, or by reprimand in the presence of the students of the Academy by the Principal, or by reprimand before the University by the President, or by suspension, or by expulsion, according to the gravity or repetition of the offence.

BUILDINGS AND ROOMS.

The Academy Buildings are described in detail under the "University Property," in the introductory pages of this Catalogue.

The Main Building contains, besides its accommodations for other school and boarding purposes, furnished rooms for twenty students. These rooms are designed to accommodate two students each, and are twenty feet by twelve feet, by fourteen feet high. They are sub-divided into a study room twelve feet by ten feet, and a dormitory nine feet square. The dormitory contains a double bed with woven wire mattress. Both rooms are provided with all necessary furniture.

The New East Hall contains combined study and sleeping rooms, each designed for two students. These rooms are fifteen feet by twelve feet, with high ceilings ; and contain two commodious closets and two single wire-mattress beds, with all necessary furniture.

UNFURNISHED ROOMS.

The Academy has a number of unfurnished rooms for the accommodation of students of mature years and of limited means. No attention by servants is given to these rooms, nor are lights supplied. Two students occupy a study room in common. The dormitories are provided with a double spring bedstead. All other furnishing is to be done by the occupants. While second-hand articles of furniture may be obtained here, it will be to the student's advantage to bring from home bedding and carpets. The dimensions of the study rooms are ten feet by twelve feet ; of the dormitory, nine feet by nine feet.

BOARDING.

All students from a distance will occupy rooms and will board in the Academy, except for reasons jointly satisfactory to the President of the University and the Principal of the Academy.

The Principal and his family, the Instructors and the Matron live in the building, take their meals with the boarders, and strive in all possible ways to secure the welfare and happiness of the students. The Instructors occupy rooms adjacent to the students' apartments. The appointments of the Dining Room, the character of the table supplies, the household service in general, are designed to furnish the comforts of a first-class boarding house. So far as may be warranted by the gentlemanly deportment of the students, there will be absent from the home-life of the school all needless uniformity and irksome limitations, which disregard the reasonable individual preferences of pupils.

The Academy gives to furnished rooms daily and complete attention, provides and washes all bedding and bed clothing, and supplies and cares for all lights.

Engagements for board and rooms are expected to continue without change to the end of the school year for which they are made.

APPLIANCES.

The Academy is in possession of excellent apparatus for instruction. A select Reference Library, containing an Encyclopedia, Lexicons, Dictionaries, Atlases, and various other helps, is accessible to students at all hours. The Classical Recitation Room is provided with Kiepert's Wall Maps of Ancient Geography, and with Reinhard's Album of Classical Antiquities, mounted. Metric apparatus, Maps and Globes render assistance in other directions.

The Physical apparatus of the College also is accessible to the class in Natural Philosophy for purposes of experiment and illustration.

The books of the College Library are available for all students.

HOURS.

The time devoted to study and recitation amounts to nine hours every week-day, except Saturday, when it is only one hour. This time should be sacred to its purpose. Parents of day pupils are requested to coöperate with the school in securing attention to evening study hours, and to avoid furnishing excuses or granting occasions for absence.

Students from a distance should be in Lewisburg on the day preceding the opening of each term, and no student should leave until the term shall have closed. Punctuality in attendance is essential to success in school work.

For terms and vacations see the Calendar of the University.

STANDING AND PROMOTIONS.

The weekly averages of marks for recitations are recorded, and also failures in conduct and attendance. The scale for such markings ranges from 10, or perfect, to 0, or inexcusable failure. Unexcused absences count as zeros.

Monthly and Term examinations are held in the studies thus far completed, and quarterly reports of the average in scholarship, attendance, and conduct of each student are sent to parents or guardians by the Principal.

No student is promoted to the next higher class whose average in any study is less than 7. A review of the study and a satisfactory examination will be necessary to secure the advanced standing desired.

Students who complete the Preparatory Courses of Study are admitted to standing in corresponding divisions of the Freshman Class in the College, upon the Principal's certificate, without separate examination.

All students who complete in a satisfactory manner either the Classical or the Scientific Course of study, and who have sustained irreproachable characters during their school residence, shall be entitled to a certificate setting forth their proficiency in the branches studied.

Students attaining an average standing of 9 are encouraged to devote spare time to work additional to the Regular Courses of Study.

PRIZES.

The Harry S. Hopper Prize.

Mr. Harry S. Hopper, of Philadelphia, Chairman of the Board of Trustees, offers an annual prize of ten dollars for excellence in Composition.

This prize for 1892 was awarded to Harry Thomas Colestock.

The Rev. D. P. Leas Prize.

Rev. David P. Leas, of Philadelphia, Treasurer of Bucknell University, offers an annual prize of ten dollars to that member of the Third Form who shall excel in the annual Exhibition of the Third Form in Declamation.

This prize in 1892 was awarded to Harry Thomas Sprague.

The Principal William E. Martin Prize.

Principal William E. Martin offers an annual prize of ten dollars to that member of the Fourth Form who shall pronounce the best oration at the Academic Graduating Exhibition.

This prize for 1892 was awarded to Harry Warren Nice.

LITERARY SOCIETIES.

Hermenia; Adelphia.—These are voluntary organizations of students for mutual improvement in Literary and Oratorical exercises. They have large and convenient halls in the Academy building, where they hold their meetings on Friday evenings.

RELIGIOUS SERVICES.

The duties of each day are opened with devotional exercises in Bucknell Hall, at which all students are required to be present.

Regular attendance upon public worship at some Church in town on Sunday morning, is required; also upon services on Thanksgiving Day, and the Day of Prayer for Colleges. Attendance upon Sunday Schools and mid-week Prayer Meetings, while voluntary, is strongly urged upon students.

The Academic students maintain a branch of the Young Men's Christian Association, which holds a weekly prayer-meeting on Tuesday evenings.

EXPENSES.

	Per Annum.
Tuition, Board, Furnished Rooms, Fuel, Lights, Care, Washing, and Incidentals, - - - - - - - - - - -	$225 00
Tuition, Board, Unfurnished Rooms, Fuel, Washing and Incidentals,	180 00
Tuition, Fuel and Incidentals to Day Pupils, - - - - -	50 00

All charges are payable to the Registrar of the University in advance, at the beginning of each term; or by the 15th of September, January and April.

No student is entitled to his place in his class until he has made settlement for the term bills.

If a student occupy a study by himself, the charges for room-rent and private fuel will be doubled.

Free scholarships covering tuition are provided in all the Departments of the University for the children of Ministers of the Gospel *in actual service.*

The expenses for Music and Printing for Exhibitions and Anniversary occasions are paid by the classes for which such expenses are incurred.

For information respecting the Academy, address the President of the University, John H. Harris, Ph.D., LL.D., or the Principal, William E. Martin, A. M.

THE INSTITUTE.

INSTRUCTORS AND OTHER OFFICERS.

JOHN HOWARD HARRIS, PH. D., LL. D.,
PRESIDENT OF THE UNIVERSITY, AND INSTRUCTOR IN PSYCHOLOGY AND ETHICS.

MRS. KATHERINE B. LARISON, A. M., PRINCIPAL,
AND INSTRUCTOR IN LITERATURE.

CORNELIA CONANT BRONSON,
LATIN AND GERMAN.

FRANCES MARY RUSH, A. M.,
ENGLISH AND MATHEMATICS.

HARRIET CLARE ARMITAGE,
ENGLISH, ELOCUTION AND GYMNASTICS.

ELYSÉE AVIRAGNET, A. M., MUS. DOC.,
VOCAL AND INSTRUMENTAL MUSIC AND THE ROMANCE LANGUAGES.

JULIET AIKEN,
INSTRUMENTAL MUSIC.

CANDACE WOOD,
DRAWING AND PAINTING.

MARY MONICA KREAMER,
INSTRUMENTAL MUSIC.

GEORGE ELMER FISHER, PH. B.,
SCIENCE.

LLEWELLYN PHILLIPS, A. B.,
GREEK.

ISAAC FRANKLIN BODLE, PH. B.,
ARITHMETIC.

WILLIAM CHRISTIAN GRETZINGER, PH. B.,
REGISTRAR OF THE UNIVERSITY.

ELIAS REYNOLDS,
CARE OF INSTITUTE GROUNDS AND BUILDINGS.

MRS. ELIAS REYNOLDS,
MATRON.

DIRECTORY OF THE ALUMNÆ.

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The Principal of the Institute will esteem it a favor if any graduate who changes her residence will give notice of her new address. She will also be grateful for any information that will assist in making or keeping the directory of the graduates complete, or serve for future editions of the quinquennial catalogue.

STUDENTS.

GRADUATE STUDENT.

NAME.	RESIDENCE.	ROOM.
Nelle Violet Jauss,	*Harrisburg.*	Institute.

THE SENIOR YEAR.

NAME.	RESIDENCE.	ROOM.
Margaret Stuart Baker,	*Lewisburg.*	J. T. Baker, Esq.
Mary Emma Butler,	*Montandon.*	John W. Butler.
Flora May Clymer,	*Philadelphia.*	Institute.
Lillie Candace Grove,	*Chillisquaque.*	Institute.
Margaret Belle Katherman,	*Lewisburg.*	Mr. Emanuel Katherman.
Louise Lane,	*Huntingdon.*	Institute.
Ruth Estelle Miller,	*Waverly.*	Institute.
Anna May Pensyl,	*Elysburg.*	Institute.
Ruth Horsfield Sprague,	*Lewisburg.*	Mr. John Sprague.

NAME.	RESIDENCE.	ROOM.
Nellie Zetilla Vandling,	*Northumberland.*	Mr. Thomas J. Vandling.
Lottie May Walter,	*Lewisburg.*	Mr. C. F. Walter.
Hattie Laura Walter,	*Lewisburg.*	Mr. C. F. Walter.
Oriana Williams,	*Lewisburg.*	Mr. John Sprague.

FOURTH YEAR.

NAME.	RESIDENCE.	ROOM.
Elizabeth Tower Bates,	*Lewisburg.*	Hon. S. D. Bates.
Mary Bell,	*Lewisburg.*	Mr. Edward Bell.
Mabel Clare Callender,	*Olyphant.*	Institute.
Elizabeth Wells Clearwater,	*Wilcox.*	Institute.
Vida Smith Davenport,	*Pittston.*	Institute.
Martha Elizabeth Davis,	*Johnstown.*	Institute.
Eva Catherine Davison,	*Union Corner.*	Institute.
Nora May Greene,	*Saltillo.*	Institute.
Ida Gertrude Greene,	*Saltillo.*	Institute.
Cora May Johnson,	*Lewisburg.*	Prof. B. R. Johnson.
Anna Julia Keiser,	*Lewisburg.*	Mrs. William Keiser.
Harriet Irene Lewis,	*Lewisburg.*	Mrs. Thomas S. Lewis.
Alice June Lillibridge	*Olyphant.*	Institute.

NAME.	RESIDENCE.	ROOM.
ALICE GERTRUDE PROBASCO,	*Bridgton, N. J.*	Institute.
BLANCHE PURSEL,	*Danville.*	Institute.
ELLA MAY REESE,	*Fair View Village.*	Institute.
ANNA GERTRUDE SIEBER,	*Lewisburg.*	Rev. L. L. Sieber.
JENETTE RACHEL SNOOK,	*Lewisburg.*	Prof. W. G. Owens.
EMMA VIOLA STARICK,	*Lewisburg.*	Mr. Chas. R. Case.
LULU BLANCHE SWENGEL,	*Lewisburg.*	Rev. E. Swengel.
MABEL WOLFE THOMAS,	*Lewisburg.*	Rev. W. P. Thomas.
ELIZABETH BLANCHE VASTINE,	*Danville.*	Institute.
MABEL EDNA WITTENMYER,	*Middleburg.*	Institute.

THE THIRD YEAR.

NAME.	RESIDENCE.	ROOM.
FRANCES MOORE BAKER,	*Lewisburg.*	J. T. Baker, Esq.
MARY HOWARD BAKER,	*Lewisburg.*	J. T. Baker, Esq.
BESSIE ESTELLE BRUBAKER.	*Mifflinburg.*	Institute.
MARGARET MAY CAWLEY,	*Lewisburg.*	Mr. H. B. Cawley.
LENA MAY CLARK,	*Scranton.*	Institute.
JENNIE ARAMINTA DAVIS,	*Camden, N. J.*	Institute.
IRENE CARRIE ELLIS,	*Lewisburg.*	Rev. Wm. H. Ellis.
LAURA FAGUE,	*Hughesville.*	Institute.

NAME.	RESIDENCE.	ROOM.
Helen Mann Freyling,	*St. Mary's.*	Institute.
Martha Anderson Goldy,	*Camden, N. J.*	Institute.
Grace Iola Hague,	*Pittsburg.*	Institute.
Emma Beulah Hayes,	*Lewisburg.*	Hon. Alfred Hayes.
Stella Rebecca Houghton,	*Lewisburg.*	Mr. W. Houghton.
Nannie Bennett Kinports,	*Grant.*	Institute.
Mary Matlack,	*Lewisburg.*	Mr. George S. Matlack.
Aida Virginia Myers,	*Lewisburg.*	Mr. Daniel Myers.
Margaret Isabella Norton,	*Lewisburg.*	Mr. Thomas G. Norton.
Anna May Rodgers,	*Allentown.*	Institute.
Mary Olivia Ross,	*Mifflinburg.*	Institute.
Clarissa Fisher Russell,	*Lewisburg.*	Mr. T. Frank Russell.
Grace Slifer,	*Lewisburg.*	Mrs. C. V. Slifer.
Mary Alice Thornton,	*Lewisburg.*	Dr. T. C. Thornton.

THE SECOND YEAR.

NAME.	RESIDENCE.	ROOM.
Belle Bartol,	*Lewisburg.*	Prof. W. C. Bartol.
Sara Martha Black,	*Lewisburg.*	Mrs. Anna M. Black.
Fannie Margaret Case,	*Lewisburg.*	Mr. Chas. R. Case.
Mary M. Davis,	*Reynoldsville.*	Institute.
Esther McKinstry Greene,	*Saltillo.*	Institute.

NAME.	RESIDENCE.	ROOM.
Anna Curzon Judd,	*Lewisburg.*	Rev. J. T. Judd.
Eleanor Georgianna Laury,	*Weissport.*	Institute.
Eliza Johnston Martin,	*Lewisburg.*	Prin. Wm. E. Martin.
Mary Elizabeth Moorhead,	*Lewisburg.*	Rev. I. N. Moorhead.
Anna Rubetta Moorhead,	*Lewisburg.*	Rev. I. N. Moorhead.
Genevieve Morgan,	*Nanticoke.*	Institute.
Rachel Jane Noll,	*Lewisburg.*	Mr. Martin Noll.
Elizabeth Josephine Noyes,	*Westport.*	Institute.
Effie May Shaffer,	*Fleetwood.*	Institute.
Edith Elizabeth Schaffer,	*Derry Church.*	Institute.
Eleanor Cornelius Shamp,	*Lewisburg.*	Mr. James W. C. Shamp.
Bertha Celestine Watkins,	*Lewisburg.*	Rev. W. G. Watkins.

FIRST YEAR.

NAME.	RESIDENCE.	ROOM.
Ruth Nora Davis,	*Lewisburg.*	Rev. L. C. Davis.
Nellie Stannert,	*Lewisburg.*	Mr. J. H. Stannert.
Elizabeth Wilhelmina Spettigue,	*Wilcox.*	Institute.
Mabel Ada Williams,	*Ridgway.*	Institute.

PURSUING SELECT STUDIES.

NAME.	RESIDENCE.	ROOM.
Tabitha Josephine Farwell,	*Chatham's Run.*	Institute
Elsie Mabel Lowe,	*Philadelphia.*	Institute.
Alice Lyon Mench,	*Mifflinburg.*	Institute.
Marion Murray Moon,	*Elkland.*	Institute.
Mary Katherine Owens,	*Lewisburg.*	Capt. John A. Owens.
Harriet Seeley Sayre,	*Williamsport.*	Institute.
Nellie Grace Suiter,	*Lock Haven.*	Institute.

SUMMARY.

Graduate Student	1
Seniors	13
Fourth Year	23
Third Year	22
Second Year	17
First Year	4
Special	7
Total	87

SCHOOL OF MUSIC.

PIANO.

NAME.	RESIDENCE.
Nellie Barber	Lewisburg.
Belle Bartol	Lewisburg.
Eliza Bell	Lewisburg.
Mary Bell	Lewisburg.
Ella Bender	Lewisburg.
Lulu Biddle	Lewisburg.
Cornelia Bronson	Lewisburg.
Miriam Bucher	Lewisburg.
Lena Burke	Northumberland.
Fannie Margaret Case	Lewisburg.
Elizabeth Wells Clearwater	Wilcox.
Mary Cotton	Lewisburg.
Minnie Cotton	Lewisburg.
Mary Elizabeth Darlington	Lewisburg.
Vida Smith Davenport	Pittston.
Eva Jane Derr	Limestoneville.
Katherine Heebner Detwiler	Norristown.
Elizabeth Follmer	West Milton.
Laura Fague	Hughesville.
Emma Faust	Watsontown.
Tabitha Josephine Farwell	North Bend.
Esther McKinstry Greene	Saltillo.
William Greiner	Mausdale.
Grace Iola Hague	Pittsburg.
Mary Belle Harris	Lewisburg.
Eleanor Cameron Harrison	Lewisburg.
Jeanie Himmelreich	Lewisburg.
Emma Taylor Hyman	Winfield.
Nelle Violet Jauss	Harrisburg.

NAME.	RESIDENCE.
Anna Curzon Judd	Lewisburg.
Dona Krumrine	Lewisburg.
William M. Kleckner	Vicksburg.
Eleanor Georgianna Laury	Weissport.
Josephine Lawshe	Lewisburg.
Mary Leiser	Lewisburg.
Winifred Lyman	Austin.
Jean MacCarty	Lewisburg.
Mary Matlack	Lewisburg.
Alice Lyon Mench	Mifflinburg.
Genevieve Morgan	Nanticoke.
Marion Murray Moon	Elkland.
Scott Pardoe	Watsontown.
Anna May Pensyl	Elysburg.
Ella May Reese	Fairview Village.
Mary Belle Reed	Sunbury.
Frances Mary Rush	Lewisburg.
Sara May Smeigh	Lewisburg.
Effie May Shaffer	Fleetwood.
Anna Gertrude Sieber	Lewisburg.
Jenette Rachel Snook	Lewisburg.
Elizabeth Wilhelmina Spettigue	Wilcox.
Jessie Steiner	Lewisburg.
Nellie Grace Suiter	Lock Haven.
Mary Thornton	Lewisburg.
Lucy Treverton	Lewisburg.
Lizzie Waters	East Lewisburg.
Mary Elizabeth Wilson	Lewisburg.
Mabel Edna Wittenmeyer	Middleburg.

ORGAN.

NAME.	RESIDENCE.
Blanche Hassenplug	Lewisburg.
William M. Kleckner	Vicksburg.
Winifred Lyman	Austin.

VOICE CULTURE.

NAME.	RESIDENCE.
Fannie Margaret Case	Lewisburg.
Robert Bailey Davidson	Paterson, N. J.
Laura Fague	Hughesville.
Tabitha Josephine Farwell	North Bend.
Emma Faust	Watsontown.
Grace Iola Hague	Pittsburg.
Blanche Hassenplug	Lewisburg.
Winifred Lyman	Austin.
Alice Lyon Mench	Mifflinburg.
Ruth Estelle Miller	Waverly.
Marion Murray Moon	Elkland.
Anna May Rodgers	Allentown.
Alfred Lawrence Slack	Lewisburg.
Elizabeth Wilhelmina Spettigue	Wilcox.
Nellie Grace Suiter	Lock Haven.
Lulu Blanche Swengel	Lewisburg.
Sadie Wagner	Lewisburg.
Irene Walls	Lewisburg.

HARMONY.

NAME.	RESIDENCE.
Ezra Allen	Coudersport.
Katherine Pontius Baker	Lewisburg.
Margaret Stuart Baker	Lewisburg.
Ella Bender	Lewisburg.

NAME.	RESIDENCE.
Cornelia Bronson	Lewisburg.
Elizabeth Wells Clearwater	Wilcox.
Emma Faust	Watsontown.
Mary Belle Harris	Lewisburg.
Nelle Violet Jauss	Harrisburg.
Josephine Lawshe	Lewisburg.
Louise Lawshe	Lewisburg.
Mary Matlack	Lewisburg.
James Brown Martin	Lewisburg.
Genevieve Morgan	Nanticoke.
Marion Murray Moon	Elkland.
Mary Belle Reed	Sunbury.
Effie May Shaffer	Fleetwood.
Sara May Smeigh	Lewisburg.
Jessie Steiner	Lewisburg.
Nellie Grace Suiter	Lock Haven.
Mary Thornton	Lewisburg.
Mabel Edna Wittenmeyer	Middleburg.

VIOLIN.

NAME.	RESIDENCE.
Katherine Pontius Baker	Lewisburg.
Belle Bartol	Lewisburg
Ella Bender	Lewisburg.
Logan Crismire	Lewisburg.
Elizabeth Follmer	West Milton.
Louise Lawshe	Lewisburg.
James Brown Martin	Lewisburg.
Scott Pardoe	Watsontown.
Franklin Isaac Sigmund	Philadelphia.
Sara May Smeigh.	Lewisburg.
Lottie May Walter	Lewisburg.
Julia Montgomery Weidensaul	Lewisburg.
Paul Emil Weithaase	Camden, N. J.

VIOLINCELLO.

NAME.	RESIDENCE.
Margaret Stuart Baker	Lewisburg.
Thomas Stradling Fretz	Gardenville.

DOUBLE BASS.

NAME.	RESIDENCE.
Ezra Allen	Coudersport.

MANDOLIN AND GUITAR.

NAME.	RESIDENCE.
Juliet Aikin	Lewisburg.
Laura Fague	Hughesville.
Nannie Bennett Kinports	Grant.
Ralph Samuel Koser	Williamsport.
Mary Monica Kreamer	Lewisburg.
Winifred Lyman	Austin.
Genevieve Morgan	Nanticoke.
Mabel Edna Wittenmeyer	Middleburg.

CORNET AND HORN.

NAME.	RESIDENCE.
Andrew Freeman Anderson	Lewisburg.
Layman Leon Bower	Pittston.
Benjamin Kane Brick	Marlton, N. J.

NAME.	RESIDENCE.
Everett Adams Bush	Panama, N. Y.
Joseph Caldwell Carey	Glen Loch.
Peter Bodine Cregar	Aurandale, N. J.
John Brice Cressinger	Sunbury.
Robert Bailey Davidson	Paterson, N. J.
Albert Edward Finn	Philadelphia.
Frank Watterson Jackson	Ohiopyle.
Warren Stanley Marts	Dividing Creek.
Ervin Russell Powell	North Sewickley.
Frederick Otto Schub	Pittsburg.
Frank Morton Simpson	Clifford.
Robert Harris Simpson	Clifford.
Lewis Clark Tinker	Sharon.
George Henry Waid	Reading.
Charles Wesley Williams	Philadelphia.
Albert Harnish Wynkoop	Philadelphia.

SUMMARY.

Piano	58
Pipe Organ	3
Voice Culture	18
Harmony	22
Violin	13
Violincello	2
Double Bass	1
Cornet	19
Mandolin and Guitar	8
Total	145
Names repeated	39
	106

SCHOOL OF ART.

NAME.	RESIDENCE.
Harriet Clare Armitage	Elmira.
Nellie Barber	Lewisburg.
Mary Bell	Lewisburg.
Mabel Clare Callender	Scranton.
Martha Elizabeth Davis	Johnstown.
Katherine Heebner Detwiler	Norristown.
Eva Jane Derr	Limestoneville.
Annie Evans	Lewisburg.
Martha Anderson Goldy	Camden, N. J.
Ida Gertrude Green	Saltillo.
Katherine Hazlewood	Lewisburg.
Anna Julia Keiser	Lewisburg.
Mary Monica Kreamer	Lewisburg.
Elsie Mabel Lowe	Philadelphia.
Alice Jane Lillibridge	Olyphant.
Eleanor Mabel Laury	Weissport.
Fannie Marsh	Lewisburg.
Fannie McLaughlin	Lewisburg.
Ruth Estelle Miller	Waverly.
Alice Gertrude Probasco	Bridgeton, N. J.
Anna May Pensyl	Elysburg.
Clemence Proctor Reid	Milton.
Frances Mary Rush	Lewisburg.
Anna Schrack	Mifflinburg.
Florence Smith	Lewisburg.
Agnes Sprague	Lewisburg.
Mary Elizabeth Wilson	Lewisburg.
Carrie Wittenmyer	Middleburg.
Bertha Wittenmyer	Middleburg.
Mary Wolfe	Pottsgrove.

PRIVATE LESSONS IN ELOCUTION.

NAME.	RESIDENCE.
Lillie Candace Grove	Chillisquaque.
Margaret Melick	Sunbury.
Nellie Zetilla Vandling	Northumberland.
Margaret Melvina Wagner	Lewisburg.

GENERAL SUMMARY.

Institute Courses		87
School of Music	106	
School of Art	30	
Elocution (Special)	4	
(Names repeated, 96)		46
Total		133
Other Departments		218
		351

COURSES OF STUDY.

The Bucknell Institute offers to young women three courses of study, each extending over five years. Students are admitted to advanced standing, if, upon examination, they are found to have satisfactory knowledge of the branches which the class they propose to enter has already completed.

I. THE LITERARY COURSE.

The Literary Course embraces, in MATHEMATICS, Arithmetic, common and advanced, Algebra and Geometry, plane and solid; in LATIN, two years *required*, and a third year elective with German or French; in GERMAN and FRENCH, one year each or two of either; and in ITALIAN and SPANISH, an optional course under the instruction of M. Elysée Aviragnet; in SCIENCE, Physical Geography, Botany, Astronomy, Physics, Physiology, Chemistry, and Geology. In these branches the students have the advantages afforded by the College, Observatory, Laboratory and Museum. The course also includes Rhetoric, Composition, Civil Government, Psychology and Ethics.

Special attention is given to History and Literature, to the former of which six, and to the latter three, terms are devoted.

II. THE CLASSICAL COURSE.

The Classical Course embraces, in MATHEMATICS, Arithmetic, Algebra, Geometry, plane and solid, University Algebra and Trigonometry; in LATIN, Grammar and Composition, Cæsar, Vergil, Cicero's Orations, Cicero de Senectute et de Amicitia, Livy and Tacitus, in all, four years; in GREEK, Grammar and Composition, Xenophon's Anabasis, Homer's Iliad, Lysias' Orations, Herodotus, Homer's Odyssey, and the Greek Testament, in all, three years; in HISTORY, General History, and Greek and Roman History.

Students who complete the Classical Course are admitted to the Sophomore Class in College as candidates for the first degree in Arts.

III. THE LATIN SCIENTIFIC COURSE.

The Latin Scientific Course corresponds to the Classical Course, except that scientific studies are substituted for the first two years of Greek, and German for the third year of Greek.

Students who complete the Latin Scientific Course are admitted to the Sophomore Class in College as candidates for the first degree in Philosophy.

IV. THE ECLECTIC COURSE.

The Eclectic Course.—For those who do not intend to pursue a Regular Course of Study, but desire to select certain special branches, the Institute will, subject to necessary restrictions, provide such studies as they may elect and for which they show themselves qualified, but only in connection with the recitations of the regular classes.

CURRICULA.*

I. THE LITERARY COURSE.

FIRST YEAR.

I.	TERM—Arithmetic,	Wentworth,
	United States History,	Barnes,
	English Grammar,	Outlines and Exercises.
II.	TERM—Arithmetic,	Wentworth,
	General History,	Barnes,
	English Grammar,	Outlines and Exercises.
III.	TERM—Arithmetic,	Wentworth,
	General History,	Barnes,
	English Grammar,	Outlines and Exercises.

SECOND YEAR.

I.	TERM—Latin—Lessons,	Bellum Helvetium,
	Grammar,	Allen and Greenough,
	Physical Geography,	Appleton,
	Higher Arithmetic,	Wentworth.
II.	TERM—Latin—Lessons,	Bellum Helvetium,
	Grammar,	Allen and Greenough,
	History of Greece,	Myers,
	Book-Keeping,	Bryant.
III.	TERM—Cæsar,	Kelsey,
	Rhetoric,	Hill's Elements,
	Botany,	Gray,
	History of Rome,	Myers.

THIRD YEAR.

I.	TERM—Cæsar,	Kelsey,
	Algebra,	Sheldon,
	English History,	Guest.
II.	TERM—Vergil,	Greenough,
	Algebra,	Sheldon,
	Astronomy,	Sharpless and Philips.
III.	TERM—Vergil,	Greenough,
	Physics,	Sharpless and Philips,
	Civil Government,	Cocker.

* REQUIREMENTS FOR ADMISSION.

Credentials from Graded Schools accepted in the studies of the First and Second Years. Credentials accepted for the Third, Fourth and Senior Years from schools whose curricula are equivalent to that of Bucknell Institute ; also from accredited private teachers, in studies which are *continued* after entrance.

FOURTH YEAR.

I.	TERM—Vergil, *or*	Greenough,
	German,	Joynes-Meissner,
	Algebra,	Sheldon,
	Chemistry,	Eliot and Storer.
II.	TERM—Cicero, *and*	Allen and Greenough,
	Latin Prose Composition, *or*	Collar,
	German,	Joynes-Meissner,
	Geometry,	Wentworth,
	Physiology,	Walker.
III.	TERM—Cicero, *or*	Allen and Greenough,
	German, *and*	Joynes-Meissner,
	German Composition,	Harris,
	Geometry,	Wentworth,
	Geology,	LeConte.

SENIOR YEAR.

I.	TERM—Psychology,	Hill,
	English Literature,	Outlines,
	English Classics,	
	French, *or*	
	German,	Die Jungfrau von Orleans.
II.	TERM—English Literature,	Outlines,
	English Classics,	
	Solid Geometry,	Wentworth,
	French, *or*	
	German,	Wilhelm Tell.
III.	TERM—Ethics,	Hopkins,
	American Literature,	Outlines,
	American Classics,	
	French, *or*	
	German,	Hermann und Dorothea.

II. THE CLASSICAL COURSE.

FIRST YEAR.

I.	TERM—Arithmetic,	Wentworth,
	United States History,	Montgomery,
	English Grammar,	Outlines and Exercises.
II.	TERM—Arithmetic,	Wentworth,
	General History,	Barnes,
	English Grammar,	Outlines and Exercises.
III.	—TERM—Arithmetic,	Wentworth,
	General History,	Barnes,
	English Grammar,	Outlines and Exercises.

SECOND YEAR.

I. TERM—Latin—Lessons,	Bellum Helvetium,
Grammar,	Allen and Greenough,
Physical Geography,	Appleton,
Higher Arithmetic,	Wentworth.
II. TERM—Latin—Lessons,	Bellum Helvetium,
Grammar,	Allen and Greenough,
History of Greece,	Myers,
Book-Keeping,	Bryant.
III. TERM—Cæsar's Commentaries,	Kelsey,
Rhetoric,	Hill's Elements,
Elementary Botany,	Gray,
History of Rome,	Myers.

THIRD YEAR.

I. TERM—Algebra,	Sheldon,
Cæsar's Commentaries,	Kelsey,
Greek—Lessons,	Boise and Pattengill,
Grammar,	Hadley-Allen.
II. TERM—Algebra,	Sheldon,
Vergil's Æneid,	Greenough,
Greek—Lessons,	Boise and Pattengill,
Grammar,	Hadley-Allen.
III. TERM—Natural Philosophy,	Sharpless and Philips,
Vergil's Æneid,	Greenough,
Xenophon's Anabasis,	Kelsey.

FOURTH YEAR.

I. TERM—Algebra, Quadratics,	Sheldon,
Latin—Vergil's Æneid,	Greenough,
Prosody,	Allen and Greenough,
Xenophon's Anabasis,	Kelsey.
II. TERM—Plane Geometry,	Wentworth,
Latin—Cicero's Orations,	Allen and Greenough,
Prose Composition,	Collar,
Homer's Iliad,	Seymour.
III. TERM—Plane Geometry,	Wentworth,
Cicero's Orations,	Allen and Greenough,
Greek—Homer's Iliad,	Seymour,
Prose Composition,	Jones.

SENIOR YEAR.

I. TERM—Geometry,	Practical Ethics,
Algebra,	Hygiene,
Cicero de Senectute et de Am.,	Elocution,
Lysias' Orations,	English Composition,
Greek Prose Composition,	Lectures on the Essay.

II.	TERM—Trigonometry,	Derivatives,
	Livy,	Elocution,
	Herodotus or Thucydides,	English Composition.
	Greek Testament,	
III.	TERM—Analytical Geometry,	Chemistry,
	Tacitus,	Elocution,
	Odyssey,	Composition.
	Greek Testament,	

III. THE LATIN SCIENTIFIC COURSE.

FIRST YEAR.

I.	TERM—Arithmetic,	Wentworth,
	United States History,	Montgomery,
	English Grammar,	Outlines and Exercises.
II.	TERM—Arithmetic,	Wentworth,
	General History,	Barnes,
	English Grammar,	Outlines and Exercises.
III.	TERM—Arithmetic,	Wentworth,
	General History,	Barnes,
	English Grammar,	Outlines and Exercises.

SECOND YEAR.

I.	TERM—Latin—Lessons,	Bellum Helvetium,
	Grammar,	Allen and Greenough,
	Physical Geography,	Appleton,
	Higher Arithmetic,	Wentworth.
II.	TERM—Latin—Lessons,	Bellum Helvetium,
	Grammar,	Allen and Greenough,
	History of Greece,	Myers,
	Book-Keeping,	Bryant.
III.	TERM—Cæsar,	Kelsey,
	Rhetoric,	Hill's Elements,
	Elementary Botany,	Gray,
	History of Rome,	Myers.

THIRD YEAR.

I.	TERM—Cæsar's Commentaries,	Kelsey,
	Algebra,	Sheldon,
	English History,	Guest.
II.	TERM—Algebra,	Sheldon,
	Vergil's Æneid,	Greenough,
	Astronomy,	Sharpless and Philips.

III.	TERM—Natural Philosophy,	Sharpless and Philips,
	Vergil's Æneid,	Greenough,
	Civil Government,	Cocker.

FOURTH YEAR.

I.	TERM—Algebra, Quadratics,	Sheldon,
	Latin—Vergil's Æneid,	Greenough,
	Prosody,	Allen and Greenough,
	English Literature,	Outlines.
II.	TERM—Plane Geometry,	Wentworth,
	Latin—Cicero's Orations,	Allen and Greenough,
	Prose Composition,	Collar,
	Physiology,	Walker.
III.	TERM—Plane Geometry,	Wentworth,
	Cicero's Orations,	Allen and Greenough,
	Geology,	Le Conte.

SENIOR YEAR.

I.	TERM—Geometry,	Lectures on the Essays,
	Algebra,	Practical Ethics,
	Cicero de Senectute et de Am.,	Hygiene,
	German,	Elocution,
	English Composition.	
II.	TERM—Trigonometry,	Derivatives,
	German,	Elocution,
	Livy,	English Composition.
III.	TERM—Analytical Geometry,	Linear Perspective,
	Horace,	Elocution,
	German,	English Composition.

METHODS OF INSTRUCTION.

I. PSYCHOLOGY AND ETHICS.

Psychology is taught by a text-book and informal lectures. The relation of Psychology to education is made a special feature.

The aim in the course in Ethics is to make the instruction as practical as possible. Hopkins' work on Ethics is used as a text-book.

II. ENGLISH.

English Grammar.—The aim is to enable the pupils to speak and write the English language with accuracy and force. No text-book is used, the instruction being suggestive and inductive.

Rhetoric is taught as a practical aid to English Composition. Daily exercises in the various processes of Composition are required.

English Literature is taught by topical outlines, the elaboration of which depends upon a critical study of the master-pieces in English Literature, in connection with the lives and times of the writers. The books required for this work are found in the Institute Library.

The chief object in the course is to imbue each student with an ardent desire *to know* and *to value* the best thoughts of the greatest minds; and to clearly comprehend the relation of these thoughts to English Literature and the English race.

III. HISTORY.

History.—Six terms are devoted to this study. The text-book is supplemented by the topical method. Efforts are made to convince the learner that History is not mere facts in chronological order, but a record of the development of civilization.

Civil Government is taught as a preparation for intelligent citizenship. The origin and growth of our institutions, the functions of the various departments of the National, State and local government; the political history of the people; the interpretation and construction of the Constitution, are clearly presented and discussed.

IV. LATIN.

The method employed with beginners is the Inductive, the text of "Bellum Helvetium" being used as presenting a model of perfect Latin. Paradigms of Declension and Conjugation, with the principles of Syntax, are introduced gradually, after many illustrations. The same text is made the basis of English sentences to be written in Latin, readiness in Latin Composition and a correct style being thus produced.

The following courses are offered:

1. Latin Grammar and Lessons, two terms.
2. Cæsar: Gallic War, two terms.
3. Vergil: Æneid, three terms.
4. Cicero: Orations, two terms.
5. Cicero: *De Senectute et de Am.*, one term.
6. Livy: Books XXI and XXII, one term.
7. Tacitus: Germania and Agricola, one term.

V. THE GREEK LANGUAGE.

The first half year of the Third Year is spent in acquiring sufficient knowledge of forms and inflections to commence the study of Xenophon's Anabasis. During the last half year, special attention is given to the inflection and syntax of nouns, pronouns and adjectives. The reading of Xenophon is continued in the first term of the Fourth Year, and the forms and syntax of verbs made a special study. Homer is then read for one term and a half, and the difference between Homeric and Attic forms is noted. During the last half term Xenophon is reviewed, that the student may refresh his knowledge of Attic Greek, and may not find the transition to College needlessly difficult. Almost daily drill is given in turning into Greek, sentences based on the text of Xenophon.

The following courses in Greek are offered to students in the Classical Course:

1. Greek Lessons, two terms.
2. Xenophon: Anabasis, two terms.
3. Homer: Iliad, two terms.
4. Lysias: Orations, one term.
5. Herodotus: Selections, one term.
6. Homer: Odyssey, one term.
7. New Testament—Greek.

VI. THE MODERN LANGUAGES.

French, Italian and Spanish.—The Modern Languages are taught by comparing them with the maternal tongue of the pupil, if there be any relation be-

tween them. If there is none, it is compared with the Latin and Greek Languages. In French, rules are taught by which the words which are not exactly the same in the two languages are easily made French.

French Syntax is taught by examples and illustrations from readings. The grammar is taught by the language, and not the language by the grammar. Dictation exercises are given from "Whitney's Practical French."

As far as practical, French only is spoken in the class-room. Extracts are read from the best French Literature. Conversations are held in French on the readings, stories are related and compositions prepared in French by the pupil.

The aim is to teach the Modern Languages so that they can be spoken correctly.

The same method is used in teaching Spanish and Italian.

German.—In the study of German, the aim is to acquire a sufficient knowledge of the grammar and such a vocabulary as will conduce to facility in reading. As little English as practicable is used in the class-room, the rules, after frequent illustration, being learned in the German Language. The committing to memory of poems, object lessons, and conversations on the text used, form the work of the first year; the reading of German Classics and German Compositions are included in the second year's course.

VII. MATHEMATICS.

Arithmetic.—The subject is taught primarily with the object of making practical arithmeticians. The minds of the pupils are kept free from set rules, formulæ, and mechanical processes, while independent thought and logical analyses are daily required.

Algebra.—Three terms are given to this subject. There is thorough drill in the fundamental operations, and the idea that these are simply the application of arithmetical processes to symbols of general value, is kept constantly in mind. The course includes Quadratic Equations, Theory of Exponents, Variation and Series.

Geometry.—The course includes Plane and Solid Geometry. Besides the demonstrations of theorems given in the text-book, original demonstrations and the solution of problems are required.

Higher Algebra.—Some time is given to the graphical representation of the relations of quantities. The topics discussed are: Progressions, Theory of Limits, Differentiation, Development of Functions into Series, Convergency and Summation of Series, Logarithms, Compound Interest and Annuities, Permutations and Combinations, Probability, Continued Fractions and the Theory of Equations. Differentiation is introduced as a means to clear and concise proofs of the Binomial Theorem, Logarithmic Series and Exponental Series.

Trigonometry.—The course includes Plane and Spherical Trigonometry. It is as extensive as that in our best schools, but does not include those discussions and investigations which are important for specialists only. Time is given to the numerical illustration of principles, for the purpose of making sure that the meaning and use of formulæ, demonstrated and learned, are thoroughly understood.

Analytical Geometry.—The student will be taken through the elementary properties of the right line and the conic sections. There will be, in addition, a brief discussion of the general equation of the second degree, some important higher plane curves, and loci in space. The course is intended to give a clear conception of the method of Cartesian Analysis, rather than an extensive knowledge of its results.

VIII. SCIENCE.

Natural Philosophy.—The student is thoroughly grounded in the elements of mechanics and physics. The apparatus of the College Laboratory is available for use. The historical beginnings of each subject, and subsequent development, are sketched in brief lectures. No pains are spared to familiarize the pupil with the laws of these sciences, by instruction, experiment, review, and repeated examination. The truth of principles is proved, except where the demonstration involves the mathematics of the higher course in College.

Astronomy.—Descriptive Astronomy discusses the earth's relation to the solar system, the masses, motions and orbits of each member of it; the causes and consequences of at least five motions of the earth; general boundaries of the constellations of the Zodiac and Northern heavens; the accepted theories of comets, meteors and nebulæ. Charts, star maps, globes and other apparatus are used, and the student is afforded privileges of observations in the College Observatory.

Physical Geography lays a broad foundation for subsequent work in all sciences. It surveys the earth's physiography, climate, atmosphere, fauna, flora, ocean tides and currents, and geological agencies. Special attention is given to the physical features of the United States. The text is illuminated by drawings, photographs, colored and relief maps, and specimens from the Museum.

Geology.—The student here masters the elements of lithographical, structural, dynamic, and historical Geology. Specimens of various rocks and minerals are handled in class; their composition, characteristics and place in nature are explained; the structure of the earth in its present form is studied; the history of its evolution, the age and characteristics of its strata, the chief geological features of each continent, and the forces at work, and that have worked to produce change are considered.

Botany is taught by text-book, field exercise, plant analysis and weekly lectures. A brief outline is first obtained of plant structure, physiology, growth, and reproduction. The subject is then reviewed by daily drill in analyzing, recording, classifying, and preserving specimens. The recorded analysis of fifty plants is required. Lectures explaining special forms of vegetable growth, the flora of this country, the cultivation, uses, and history of plants complete the work.

Physiology.—Every effort is made to impart clear ideas of the structure, parts and functions of the human body. Special attention is given to the chemistry of foods, the laws of health, the effects of stimulants and narcotics.

Suggestions are constantly made as to poisons and their antidotes, the care of the sick, disinfection and sanitation, and accidents and emergencies. Charts, manikin and preparations are used in class.

Descriptive Chemistry is taught by text-book and lectures. The object of the course is to give the student a general knowledge of the most common elements, their sources, uses, compounds and behavior towards other elements and compounds, and to drill the student in writing formulæ and solving chemical equations. To accomplish this, each student will be expected to spend at least five hours each week in the Laboratory, studying the characteristics and reactions of the elements and their compounds, and performing the more simple experiments outlined in the text and lectures. Notes will be kept by each student, describing the experiment and giving the equation which represent the reactions taking place. The Professor will from time to time examine the note-books, and make such suggestions as he thinks helpful.

IX. ELOCUTION.

This department is open to all members of the Institute. Its aim is the correct and effective utterance of thought; special attention is given to Voice Culture, Articulation, including Pronunciation and Expression. Weekly Rhetoricals, in Bucknell Hall, afford ample opportunity for platform work. Bible Reading and the study of Shakespeare have places in the course.

PHYSICAL CULTURE.

The health of the students is made a prime object of attention, and sanitary requirements are carefully observed. The Institute Gymnasium has been refurnished and classes in Physical Culture are organized for the benefit of all students. The exercises practiced are such as tend to the development of grace and strength. The Jenness-Miller movements have been recently introduced. The Institute Campus of six acres furnishes facilities for exercise. Lawn tennis and other out-door games and exercises are encouraged.

ÆSTHETIC CULTURE.

It is intended that the pupils of the Institute shall have the influence unconsciously received from painting, music and refined surroundings, as well as direct instruction in Literature, Music and Art. Special instruction in Music and Art is given in the schools devoted to those objects. Exercises in Free-hand Drawing are required of all students, except the Seniors.

The Art collection has recently been enriched with a fine oil painting, "Tobit's Offering to the Angels," presented by Mrs. H. S. Hopper.

SOCIAL CULTURE.

Pupils are trained to observe the usages of good society. Meetings of various organizations for improvement in Literature, Music and Art, and receptions at stated times in the charge of the pupils, give variety to student life. No effort is spared to give the pupils the advantages of a cultured home.

RELIGIOUS TRAINING.

The Institute is distinctively Christian in its influence. The morning Chapel exercises in Bucknell Hall are attended by the Institute students in common with the members of the other departments. Attendance upon Sabbath school and church services in town is required. All students have weekly recitations in Outline Inductive Bible Study. The students have organized several special classes for Scripture study.

The Young Women's Christian Association, composed of the officers and students of the Institute, meets on the second Sunday and on the second Thursday of each month. The regular Tuesday evening prayer-meeting, with other devotional meetings, missionary and temperance work, are in charge of this Association.

SCHOOL OF ART.

MISS CANDACE WOOD.

The facilities for the study of Art have been greatly enhanced by the accommodations allotted to this department, in a special studio, which provides a spacious room with such adjustments for admission of light and supply of unencumbered wall surfaces as render it precisely adapted for the execution and display of art productions.

For such students as desire opportunity for serious work preparatory to professional study in Paris or elsewhere, and for those who wish to fit themselves to give systematic instruction in drawing, the following course is provided:—

First Year.—Drawing in Pencil, Charcoal and Crayon from solid geometrical forms, and portions of the human figure, with the necessary elements of Perspective, thus learning the laws of Proportion and the relations of Light and Shade.

Second Year.—Drawing from the Antique in Coal, Crayon, Sepia or oil Monochrome; Modeling in Clay or Wax. Study in Color from Draperies and Still Life.

Third Year.—Composition, Color in Landscape, Pen and Ink Drawing and Painting in Color from Nature and from Life.

On successful completion of this entire course a certificate of proficiency will be awarded.

Students who do not desire the certificate course and whose interest is in Decorative Work, will receive the requisite instruction in the latest methods,—China Painting, Tapestry Dyeing and Applied Design in other desirable mediums and materials.

Charges for instruction in Art are as follows:—

	Per Annum.
Drawing	$24 00
Crayoning	33 00
Painting in Oil, Water Colors, Pastel or on China	60 00
	Per Lesson.
Special individual instruction in Painting	$ 1 00

Free-hand Drawing is a part of the required work of the school, without extra charge, and is taught in the class-room to all students except the Seniors.

ART DISPLAY.

On the last three days of Commencement week, a display of art products by the pupils of the School of Art, is made in the Studio. At this time, a committee of art students receives and entertains all those who visit the Studio.

SPECIAL BRANCHES.

Italian and Spanish may be taken as optional studies, under the instruction of M. Elysée Aviragnet.

All optional studies must be pursued in connection with the regular classes.

ELOCUTION AND GENERAL CLASS EXERCISES.

Exercises in Spelling are required of all students except Seniors.

Bible instruction is given once a week throughout the entire course.

Essays are required of all students each month.

Two declamations are required of each student during each term.

Exercises in Elocution are required once a week of all classes. The textbook is Shoemaker's Practical Elocution, and the course of instruction includes: Voice Culture; Modulation; Analytical Reading; Articulation—Phonetics; Expression—Gesture, and the study of Shakespeare.

Special individual instruction in Elocution is offered at fifty cents a lesson.

PUBLIC EXERCISES.

The Exercises of the Graduating Class, held in Commencement Hall, form the closing exercises of the Institute. This year they will be held June 20th.

The Exercises of the Fourth Year Class.—Of special interest in the calendar of the Institute are the Exercises of the Fourth Year Class, being a combined musical and literary entertainment held in Bucknell Hall. These exercises will take place this year Saturday evening, May 6th.

Contest in Elocution.—Takes place May 13th in Bucknell Hall. A prize is offered for which all members of the Institute are allowed to compete.

ALUMNÆ AND OTHER SOCIETIES.

The Alumnæ Association holds its anniversary during Commencement Week. The date for 1893 is June 19th.

During Commencement Week, as far as the accommodations will permit, Alumnæ who take part in the Anniversary will be entertained at the Institute.

The Lewisburg Alumnæ Club meets at the Institute on the second Tuesday evening of each month during term-time, at 7 o'clock.

The Students' Loan Society meets in the parlors of the Institute on the first Tuesday morning after the opening of each term, at 9 o'clock.

The annual meeting for the election of officers is held at the Institute on the first Tuesday after the opening of school in September.

All contributions to the Society should be sent to the Treasurer, Mrs. T. H. Purdy, Sunbury, Pa.

LITERARY CLUBS.

I. **The Current News Club** meets in the Institute parlors every Monday evening from 6:15 to 7 o'clock.

II. **The Shakespeare Club** meets in the Institute parlors on Thursday evening of each week from 6:15 to 7 o'clock.

III. **The Current Literature Club** holds meetings twice each week,—on Tuesday and Friday evenings from 6:15 to 7 o'clock.

SCHOOL OF MUSIC.

ELYSÉE AVIRAGNET, A. M., MUS. DOC., DIRECTOR.

The School of Music is under the special charge of a French artist, whose musical education was received at the Conservatory of Music in Paris, and who has had a large and successful experience in teaching. He is supported by competent assistants, and the course is designed to afford every needed facility for the study of Vocal and Instrumental Music. An ample supply of pianos from the best makers is provided for practice, including a Concert Grand.

INSTRUMENTAL MUSIC.

COURSE FOR THE PIANO-FORTE OF FOUR YEARS FOR GRADUATION.

The pupil is required to pursue the most thoroughly approved modern system of technical training. After the first rudiments have been mastered, the course of instruction leads to the practice of *etudes*, designed to unite with purely technical drill the requirement of artistic style and expression.

PIANO.

FIRST YEAR.

New England Conservatory Method, 1 and 2 parts; LeCouppey Ecole du Méchanisme; Duvernoy Ecole du Méchanisme, books 1, 2 and 3; Kohler, op. 157; Czerny, fifty studies from op. 261, 821, 599 and 139, ed. of Henrich Germer; Meyer, progressive and melodious studies; Robert Sutton's "The Elements of the Theory of Music;" Brown, Musical Biographies of Composers.

SECOND YEAR.

Plaidy, Technical Studies; Czerny, Polyrythmic Studies from op. 139, 834, 335 and 299; Czerny, Studies of Ornamentation from op. 355 and 833; Czerny, twelve Studies from op. 299 and 740; Czerny, thirty studies from op. 299 and 834 (Henrich Germer Edition); Heller, Expression and Rythm, op. 125; Kullak, Preparatory Octave Studies; Rockstro, Practical Harmony; Rockstro, A History of Music.

In the School of Music it is considered advisable that pupils do a certain amount of literary work.

THIRD YEAR.

Clementi "Gradus ad Parnassum;" Tausig, Daily Studies; Kohler, op. 112; Cramer Studies, books 1, 2 and 3; Czerny, thirty-six Octave Studies from op. 821, 335, 740 and 834 (Henrich German Edition); Richter, Harmony; Dr. Marx, Universal School of Music.

FOURTH YEAR.

R. Joseffy, Daily Studies; Czerny, twenty Studies from op. 335; Czerny, nineteen Studies from op. 740; Czerny, Toccata, op. 92 (Henrich Germer Edition); Kullak, Octave Studies; Chopin, Studies; Liszt, Studies: T. Bach, Well Tempered Clavichord (preludes et fugues); Kullak, Art of Touch; Richter, Counterpoint; Reicha, Course of Musical Composition.

During the four years, selected studies from Bertini, Rossellen, Moscheles, Herz, and Thalberg are also given to the pupils.

That the æsthetic development may be proportionately secured, the above exercises are supplemented by the study of works of the best composers.

COURSE FOR PIPE ORGAN.

The course is based upon:

F. Schneider's Practical Organ School, Thayer, Dudley Buck Pedal Studies, and upon works of Rink, Batiste, Lefébure—Wely, etc., etc.

COURSE FOR THE VIOLIN.

This course is based upon:

Dancla's School of Mechanism; De Beriot's Violinist's First Guide; Fiorillo's Studies; Alard's Studies; Kreutzer's Studies, etc., with selections from the compositions of the best writers for this instrument.

COURSE FOR THE VIOLINCELLO.

Instruction for this instrument is based upon:

Méthode Pratique pour le Violincello par S. Lee.

COURSE FOR VIOLA.

Bruni's Method and Studies.

COURSE FOR CONTREBASSE. (DOUBLE BASS.)

Bottesini's Method.

THE ORCHESTRA.

CLASSES FOR ALL ORCHESTRAL INSTRUMENTS.

Students who are sufficiently advanced in any of the above musical instruments will have opportunity of practice in string quartettes, trios, concertos, and the orchestra. The latter furnishes the music for the public entertainments of the Institute.

THE BAND.

A Brass Band, consisting of about twenty pieces, has been organized, and is led by M. Elysée Aviragnet, Director of the School of Music. The Band meets weekly in Bucknell Hall for rehearsal, and furnishes street and concert music for University and town exercises.

VOICE CULTURE.

COURSE OF THREE YEARS FOR GRADUATION.

Careful instruction is given in the use of the voice, and the correct manner of producing purity of tone. To secure control over the voice and gain for it flexibility, fullness and durability, thorough drill is afforded in such technical exercises as:

Lamperti's Italian Method; Ciro Pinsuti's Daily Exercises; the Vocalises of Rossina, Marchesi, Brodogni, Ronconi and Concone; Duprez's L'art du chant; Lamperti's Studies in Bravura Singing. For expression and the development of a pure style, practice is afforded in singing the best English, German, Italian, and French Songs, Operatic Arias, and Solos from the Oratorios.

COURSE IN HARMONY.

It is urgently recommended that the study of Harmony be included with other musical work, inasmuch as a sound knowledge of its principles is essential to the success of all vocalists and instrumentalists. The text-books used are: Rockstro's Practical Harmony; Richter's Counterpoint, Reicha's Course of Musical Composition.

RECITALS.

On the Friday evening prior to Commencement week a public recital of the School of Music is held in Bucknell Hall.

The public examination of those who desire certificates of proficiency, is held in Bucknell Hall the Saturday afternoon before Commencement. At this time, each pupil plays or sings two pieces of high grade, and reads an essay on the subject of music.

TUITION.

Extra tuition is charged for instruction in Music, as follows :

	Per Annum.
Vocal Music	$60 00
Music on Piano, *or* Organ	60 00
Harmony	18 00
Use of Instrument for practice	10 00
	Per Lesson.
Special individual instruction in Music	$1 00

No reduction will be made except in case of protracted illness.

Instruction in the Orchestra and in Harmony is free to pupils otherwise studying music.

GENERAL INFORMATION.

ADVANTAGES.

The Bucknell Institute offers to young ladies unusual educational advantages. Its location in a University town assures an atmosphere of study, and the benefit of numerous literary exercises, lectures and addresses. The students in the Institute have the use not only of the library and apparatus of the Institute, but of the College as well, including the Astronomical Observatory, Chemical Laboratory, Museum, and the various apparatus of the University. An isolated school could not provide for itself these advantages at a cost of less than a quarter of a million dollars.

ADMINISTRATIVE AND OTHER REGULATIONS.

The rules of the Institute are few and simple and such as contemplate relations with those only whose purpose it is to conform to reasonable laws.

Parents should not seek to direct the movements of their daughters in such particulars as interfere with the regulations of the Institute, which regulations during term-time are expected to prevail.

The following are selections from the regulations:

1. No student is allowed to leave the Institute grounds at any time without permission from the Principal.

2. Unless for reasons very satisfactory, students from a distance are not permitted to visit their homes, or to leave the Institute to visit with relatives or friends in the town.

3. None but near relatives and friends from a distance are allowed to visit with boarding students, and such visits must be so arranged as not to interfere with the regular hours of study and recitation.

4. Students are not at liberty to invite guests to their private apartments, or to any part of the building, without permission from the Principal.

5. Teachers and students take their meals at the same table, and no special article of food is served to any one except in case of sickness.

6. Parents and guardians are particularly requested to refrain from furnishing their daughters and wards with *eatables of any kind*, except fruit.

7. Patrons visiting young ladies at the Institute may be accommodated with board at one dollar a day, if there are vacant rooms. In no case will students be required to give up their rooms to visitors. It is expected that all visitors will conform to the general regulations of the Institution.

8. Regular and systematic exercise, both in the open air and in the Ladies' Gymnasium, is required of each student.

9. In the Regular Course, the number of daily recitations is fixed. Special students are required to engage in such a number as may, in the judgment of the Principal, be sufficient to occupy their time.

10. The character of each recitation is recorded at the time, and the result, together with a statement of the general industry and deportment of the student, is sent to the parent or guardian at the close of the term.

11. The passing grade in any study is a definite one, and must be attained before promotion can be secured.

12. No room will be reserved for a student unless definitely engaged.

13. The books and current periodicals of the College and Institute Libraries are available for all students.

14. ARTICLES REQUIRED.—Each student should be provided with an umbrella, water-proof, overshoes, table napkins, towels, covers for bureau and washstand, counterpanes, sheets and pillow-cases; size of pillow, twenty by thirty inches; bureau, forty-three by nineteen inches; washstand, thirty-two by sixteen inches.

Every article of clothing should be marked with the owner's name in full.

It is especially desired that the dress of pupils shall be simple and inexpensive. Whenever practicable, the wardrobe should be prepared at home, to avoid the necessity of frequent visits to town.

PRIZES.

The following Prizes have been established:

THE BUCKNELL PRIZES.

The following prizes have been founded by the late William Bucknell, of Philadelphia:

1. A First Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the best essay.

2. A Second Senior Prize, to be awarded to the member of the graduating class who, being excellent in scholarship during the Senior Year, shall prepare the second best essay.

For the year 1892 the First Prize of twenty-four dollars was awarded to Nelle Violet Jauss; and the Second Prize of sixteen dollars to Mary Cora Davis.

3. A Third Senior Prize, to be awarded to the member of the graduating class who shall attain the highest grade in the studies of the Senior Year. This excludes all grades for studies not in the Senior Year, all Senior studies taken before the Senior Year, and all studies not taken in the University.

For the year 1892 this Prize of twenty-five dollars was awarded to Katherine Pontius Baker.

4. A First Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the best Fourth Year essay.

5. A Second Fourth Year Prize, to be awarded to the member of the Fourth Year Class who, being excellent in scholarship during the year, shall prepare the second best Fourth Year essay.

For the year 1892 these Prizes were awarded as follows: Nellie Z. Vandling received the First Prize of twenty dollars; Oriana Williams the Second Prize of fifteen dollars.

The Fund consists of $2,000, the income from which is to be devoted to these prizes annually in a manner more particularly defined in the donor's communication to the Trustees.

Themes for the Bucknell Essay prizes for the years 1893, 1894 and 1895 will be drawn from the following works:—

1893.—Shakespeare's Midsummer Night's Dream; Whittier's Snowbound; Irving's Legend of Sleepy Hollow; Thackeray's English Humorists.

1894.—Shakespeare's Julius Cæsar; Addison's Sir Roger de Coverley Papers; Longfellow's Evangeline; Hawthorne's House of Seven Gables; Emerson's Representative Men.

1895.—Shakespeare's Merchant of Venice; Macaulay's Essay on Milton; Ruskin's Sesame and Lilies; Whittier's Among the Hills; Holmes' Autocrat of the Breakfast Table; Hawthorne's Blithedale Romance.

THE LIPPINCOTT PRIZE.

An award of fifty dollars has been offered by Mr. Craige Lippincott, to the student who proves, on examination, to have the best command of the English Language, and the most thorough knowledge of British and American Literature. For the year 1892 this Prize was awarded to Margaret Thomson.

THE ELOCUTION PRIZE.

A Prize in Elocution is offered to that student who shall give the best recitation at the Annual Contest.

For 1892 the prize was awarded to Anna Gertrude Sieber.

THE AVIRAGNET PRIZES.

Professor Elysée Aviragnet has established two Prizes, as follows:

MUSIC.

A prize of ten dollars for excellence in Music.

For 1892 this Prize was awarded to Julia Montgomery Weidensaul.

FRENCH.

A Prize of ten dollars for excellence in French.

For 1892 this Prize was awarded to Louise Lane.

DRAWING.

Two Prizes for excellence in Free Hand Drawing established by Miss Candace Wood.

For 1892 these Prizes were awarded to Mary Elizabeth Wilson and Anna Curzon Judd.

SCHOLARSHIPS AND AIDS.

Free Scholarships, covering tuition, are awarded to children of ministers of the Gospel *in actual service.*

The Students' Loan Society, organized June, 1887, will give aid to as many students of the Institute as possible. Applications for aid should be made to the President, Mrs. Katherine B. Larison, Lewisburg, Pa.

EXPENSES.

I. **Boarding Students.**—The regular charges for Boarding Students are $225.00 per annum ; the other expenses, spending-money, books and clothing, are at the option of the individual student.

Boarding Students are charged extra for the washing of dresses, and for more than twelve pieces per week.

The rooms in the Bucknell Cottage are rented in suites, for which there is an extra charge, depending on the location.

	Per Annum.
Suite on the first floor	$30 00
Suite on the second floor	34 00
Suite on the third floor	28 00

Each suite contains a study and sleeping apartments, and has accommodations for, and will be occupied by, four persons, and the charge will be accordingly divided.

If a student arranges to occupy one of the large rooms, in the South Hall of the Main Building, by herself, extra room-rent will be charged.

Students will be charged for damage done to furniture or to the room they occupy.

II. **Day Students.**—The charges for Day Students amount to fifty dollars per annum, and are apportioned as follows :

	Per Annum.
Tuition	$36 00
Incidentals, etc	14 00
	$50 00

III. **Extra Studies.**—The charges for the same are enumerated under Elocution, Drawing and Painting, and Music.

Bills are payable *strictly in advance;* or, by the 15th of September, January, and April. Checks and drafts should be drawn in favor of the Registrar of the University.

No bill will be made out for a shorter period than one term ; and no deduction will be made except in the charge for board in case of a prolonged absence on account of sickness.

The expenses for Music, Printing, and other charges ordinarily incurred at Examinations and on Anniversary occasions, are paid by the class or classes for which such expenses are incurred.

When music is furnished by the Institute Orchestra for public exercises, no charge is made.

The fee for Graduation and Diploma is five dollars.

For information respecting the Institute, address the Principal, Mrs. Katherine B. Larison, A. M., or the President of the University, John H. Harris, Ph. D., LL.D.

RAILROAD DIRECTORY.

P. & R.—**The Shamokin, Sunbury and Lewisburg Division** of the Philadelphia and Reading Railroad passes through Lewisburg. Passengers from Philadelphia take a through car at the Broad and Callowhill Station, either in the morning or evening. Roads tributary to the main line of the Reading connect with these trains at West Falls, Reading, Tamaqua, Mahanoy Junction, and Shamokin. Passengers on the line of the **Catawissa Railroad** can connect with trains for Lewisburg at West Milton.

P. & E.—**The Philadelphia and Erie Railroad** runs within one and a half miles of Lewisburg. Persons coming to Lewisburg stop at Montandon. From that place the **Lewisburg and Tyrone Railroad** runs through Lewisburg, and the trains on this road make connections with the Philadelphia and Erie Railroad.

Most of the following trains run through from the points named below without change of cars :

Three trains daily from Philadelphia, Baltimore, Pittsburg, Buffalo, Elmira, and Williamsport ; two from New York, *via* Harrisburg or Scranton ; and one from Erie.

Penna. R. R.—Passengers from Pittsburg and other points on the **Pennsylvania Railroad** can reach Lewisburg *via* Tyrone and Lock Haven, or *via* Tyrone and Bellefonte, or *via* Lewistown and Sunbury, or *via* Harrisburg and Montandon, according as they are located on the line.

D. L. & W.—**The Lackawanna and Bloomsburg Railroad** connects with the Philadelphia and Erie Railroad at Northumberland.

The above trains connect at all intermediate points. All of the above roads have fast express trains passing through Lewisburg.

University Calendar.

1892-93.

Second Term ends.....Friday, March 24, 1893.

SPRING RECESS.

Third Term begins.....Tuesday, April 4, 1893.
Sermon before the Y. M. C. Associations.....Sunday, April 9, 1893.
Declamation of the Third Form, Academy.....Saturday, April 29, 1893.
Exercise of the Fourth Year Class, Institute.....Saturday, May 6, 1893.
Contest in Elocution, Institute.....Saturday, May 13, 1893.
Exhibition of the Junior Class, College.....Friday, May 12, 1893.
Examination of the Senior Class, College.....Wednesday, May 31, 1893.
Other Examinations.....Thursday to Saturday, June 15 to 17, 1893.
Exhibition, School of Music.....Friday, June 16, 1893.
Baccalaureate Sermon.....Sunday, June 18, 1893.
Sermon before the Education Society.....Sunday, June 18, 1893.
Examinations for Admission to College.....Monday, June 19, 1893.
Meeting of the Alumnæ of the Institute.....Monday, June 19, 1893.
Oration before the Literary Societies.....Monday, June 19, 1893.
Annual Meeting of the Trustees.....Tuesday, June 20, 1893.
Annual Meeting of the Alumni.....Tuesday, June 20, 1893.
Exhibition of the Fourth Form, Academy.....Tuesday, June 20, 1893.
Graduating Exercises of the Institute.....Tuesday, June 20, 1893.
Oration before the Alumni.....Tuesday, June 20, 1893.
Annual Commencement, the 43d.....Wednesday, June 21, 1893.

SUMMER VACATION.

Examinations for Admission to College....Wednesday, September 6, 1893.
First Term begins.....Thursday, September 7, 1893.
Thanksgiving (recess of three days).....Thursday, November 23, 1893.
First Term ends.....Wednesday, December 13, 1893.

HOLIDAY RECESS.

Second Term begins.....Tuesday, January 2, 1894.
Day of Prayer for Colleges.....Thursday, January 25, 1894.
Second Term ends.....Friday, March 23, 1894.

SPRING RECESS.

Third Term begins.....Tuesday, April 3, 1894.
Sermon before the Y. M. C. Associations.....Sunday, April 8, 1894.
Third Term ends.....Wednesday, June 20, 1894.

BUCKNELL UNIVERSITY.

AFFILIATED SCHOOLS.

KEYSTONE ACADEMY,

FACTORYVILLE, PA.

F. M. LOOMIS, A. M., *Principal*,
FENTON C. ROWELL, A. M.,
A. HERMAN FASSETT,
EDWARD E. WHITFORD, A. M.,
E. E. SOUTHWORTH,
EVELINE J. STANTON, PH. B.,
RUTH S. LEIGHTON,
ELIZABETH V. GRIFFIN,
ELLA M. DUBREE,
VILLETTE D. LOOMIS.

WESTERN PENNSYLVANIA CLASSICAL AND SCIENTIFIC INSTITUTE,

MT. PLEASANT, PA.

REV. LEROY STEPHENS, D.D., *President*,
ALFRED P. BOND, A. B.,
EMMA C. WALTER,
MARGARET ORWIG EVANS, A. B.,
CHARLOTTE ELIZABETH PAVEY,
SARAH ELIZABETH POLLINS,
KATE A. MATHER,
CARRIE AMELIA HUTSON,
SADIE HODKINSON McGEE,
ANNA JANE GIFFEN.

HALL INSTITUTE,

SHARON, PA.

HENRY MADTES, A. M., *President*,
REV. T. A. EDWARDS, A. M., *Principal*,
MANLY O. BROWN, A. B.,
ALICE LUSE,
ANNA U. STILES, PH. B.,
J. R. HOMER,
OLIVE C. GREENE,
LOUIE M. EIGHMY,
GRACE E. McCORMIC,
GEO. A. JOHNSON,
ELLEN C. McBURNEY.

CONTENTS.

PAGE.

Location 2
Plan and Purpose of the University. . . . 3
Corporate Rights. 3
Endowment 3
Form of Bequest. 3
Organization. 3
Board of Trustees 4
Meetings of the Board. 4
Committees of the Board 5
University Property 6

THE COLLEGE.

The Faculty and Other Officers 9
Directory of the Alumni. 10
Students 11
The Senior Class 11
The Junior Class 12
The Sophomore Class 14
The Freshman Class 16
Special Students. 18
Admission. 20
To Freshman Standing 20
Conditional Admission 21
To Advanced Standing 22
Local Examinations for Admission . . 22
Courses of Study 23
Curricula 24
I. Classical Course. 24
II. Philosophical Course 26
III. Scientific Course 28
Lectures. 30
Thursday Mornings. 30
Monday Mornings. 30
Special Lectures 31
University Sermons 31
Departments of Instruction 32
Elocution and Oratory. 32
The English Language and Literature, 32
The Latin Language and Literature . 34
The Greek Language and Literature . 36
Hebrew Language. 38
Modern Languages 38
Mathematics and Astronomy 39
Chemistry 41
Organic Science 42
Economics and Political Science . . . 43
Mediæval and Modern History 44
Biblical Literature. 44
Mental and Moral Science 44
Libraries and Apparatus 46
The Libraries and Reading-Room . . 46
The Museum 47
The Art Collection 47
Laboratory and Apparatus 48
General College Orders 49
Attendance 49
Examinations 49
Public Worship 50
Voluntary Societies 50
Government 50
President's Office Hours 51
Health and Physical Culture 51
Aids and Honors 52
Prizes 52
Scholarships 53
Honor Examinations 54
Expenses 55
Forty-second Annual Commencement . . 56

THE ACADEMY.

Instructors and Other Officers. 57
Students 58
The Fourth Form 58
The Third Form 59
The Second Form 61
The First Form 62

PAGE.

Courses of Study 64
Curricula 65
Methods of Instruction 68
General Information 72
Advantages 72
Government. 72
Buildings and Rooms 73
Unfurnished Rooms 73
Boarding 73
Appliances. 74
Hours 74
Standing and Promotions 74
Prizes 75
Literary Societies 75
Religious Services. 76
Expenses 76

THE INSTITUTE.

Instructors and Other Officers 77
Directory of the Alumnæ 78
Students. 79
The Senior Year 79
The Fourth Year 80
The Third Year 81
The Second Year 82
The First Year. 83
Pursuing Select Studies 84
School of Music 85
Piano 85
Organ 86
Voice Culture 87
Harmony 87
Violin 88
Violincello. 89
Double Bass 89
Mandolin and Guitar 89
Cornet and Horn 89
Art 91
Private Lessons in Elocution 92
Courses of Study 93
Curricula 94
Methods of Instruction 99
I. Psychology and Ethics 99
II. English 99
III. History 99
IV. Latin 100
V. Greek. 100
VI. The Modern Languages 100
VII. Mathematics 101
VIII. Science 102
IX. Elocution 103
Physical Culture 103
Æsthetic Culture 103
Social Culture 104
Religious Training 104
School of Art 105
Special Branches 106
Elocution and General Class Exercises. 106
Public Exercises. 106
Alumnæ and Other Societies 106
School of Music 108
Instrumental Music 108
Piano 108
Orchestra 109
The Band 110
Voice Culture 110
Course in Harmony 110
Recitals 110
Tuition 111
General Information 112
Prizes 114
Scholarships and Aids 115
Expenses 116
Railroad Directory 117
University Calendar 118
Affiliated Schools 119

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